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## DESIGN EXPLORATION AS A RESEARCH DISCOVERY PHASE THROUGH GRAPHIC DESIGN JOB ADVERTISING

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### ABSTRACT

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*Main Objective: This study explores the work vacancy advertising for graphic designers in some countries and appraises differences in economic, and educational infrastructure. Background problem: The designer's role is changing and building a more critical advancement to the organization. The job and expertise of a graphic designer as commonly associated with boundless visual results, equally designing for flyers and having knowledge of typography and visual content. Apart from that, graphic designers job and competent in equal employment, study, and technology. The expansive work and skill set of graphic designers mien a challenge for lecturers and professionals alike to carry abreast of the work of graphic designers. Novelty: For design professionals and lecturers, employment provides an intermediary for compassionate labor advertising which can format academic activities and self-improvement intentions. In design research, job Ads bring information about the competencies demanded by employers in the design professional field as well as about the organization's level of knowledge of the profession.*

*Research Method: This study uses the doc analysis method in traditional and digital graphic design job advertisements to investigate the skills that organizations seek when recruiting graphic designers. Finding/Result: The job and skills of a graphic designer are more expansive than repeatedly characterized. Graphic designers primarily provide digital and print jobs. Graphic designers primarily provide digital and print jobs. To do this kind of job, a graphic designer must have not only visual design experiences but also experiences generally identical with other areas, equally "business", "project management", and "research". Conclusion: The results of this study indicate that job advertisements reverse the former during interpretive job advancement for graphic designers in the future. As a suggestion for investigating future professional development,*

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*design researchers should make more careful use of the opportunity and scope contributed by job advertisements.*

**Keywords:** *Job Advertisement, Graphic design, Graphic Designer*

## 1. INTRODUCTION

“The classical domains of graphic design (GD) – typography, illustration, photography, and print – are not sufficient to explain what GD is and what graphic designers (GD’ers) do” (Harland, (2011). GD’ers are required to develop their skills because design issues are complicated and lack expansive experiences (Davis, (2006)). In this sensibility, GD study and method are either in a “state of flux” or consist of “fluid practice” (Harland, (2016: 24); (McDonald, (2006:354)), as improved in high-tech, the financial and universal markets impact directly on work done by the experts. The advancement of digital media technologies is the opening point for many areas of process and study in design – equally synergy design, user experience, and web usability including the explicit effect on the job and skills of GD’ers. As GD changes, professionals are challenged to continually analyze their skills. Likewise, design lecturers aspect the threat of qualifying graduates for positions in the marketplace. “The broadening of designer skills is also consistent in surveys of design professionals (DP)” (AIGA, 2019) and “conceptual articles” (Valtonen, (2016). Nonetheless, the ability to construct visual results over the construction and manipulation of “visual elements” (VE) is still compatible with GD professionals. In addition, new areas of design practice, say UI/UX design, have the potential to shape the advancement of GD’ers skills towards the digital realm. Professionals need a path to the good to characterize their career path in the condition that experiences should further advance. “In this sense, design lecturers must inform their students about available career paths, which are informed by real-life experiences of designers in the job market (JM)” (Kaygan, (2020:836)).

In a more strategic role, GD’ers commit by designing visual recognition for a brand. In particular, by designing VE says logo designs, GD’ers bring a visual touch that forms an important aspect of an organization's branding strategy (Mozota, 2003). Nonetheless, not all organizations elevate GD to a more strategic role. Furthermore, organizations view design as a system that is unified recently into product and service advancement. Design is considered an approach, that design is a recurring main informant for achieving organizational targets. Various organizations assign various roles to the design role and the skills needed to effort as DP. Thus, the expertise and effort of DP transformation alike to the role design play in the organization.

“Design management” (DM) is a mix of limited and durable exercises to achieve organizational targets. In the limited time, administering the design role assign to administering design projects in items of cost allocation, agenda, and participant. In the durable time, administering design assign to the charity made by designers and the designer's role in organizational design capabilities (Mozota, 2003). To manage the design, organizations have the option of recruiting DP and/or outsourcing design work to design agencies. In the DM literature, both the scheme for DM and the DM assumption approach (Acklin, (2013)), proposes that in the early phases of administering the design role, organizations use authority (Bruce, (1999)) or acquired' (Acklin, 2013) experiences and professional design. Furthermore, Cooper et al., (1995:95)) propose that DM and HR can cooperate in qualifying the institution to take the design. Therefore, in this study, the enrollment of a design expert is defined as a recent-phase determination appropriated by an organization to adopt and manage a design. It says things about client assumption and the way experiences are anticipated in the GD profession and how these experiences shape the effort done by GD’ers.

In investigating the expertise of GD’ers, this study relies upon “job advertisements” (JAd) as data. Ensuring the expanding enthusiasm in design and the increasing several organizations looking to hire designers are more job space for DG’ers and, therefore, more JAds possible. JAds describes the competencies organizations are looking for in new professionals. Relatively, JAds

represent a proxy for studying competencies demand in the JM. Until recently, JAdS were rarely used in design research. In other areas, equally library and information science, business, education, and health, JAdS are often used to reveal the qualifications that organizations are looking for in certain professionals. By disclosing the expertise of a professional, scientists have contributed to professional advancement by demonstrating what trends and career paths have possibly entrenched the competencies demanded by employers. Furthermore, scientists also point to the academic condition of learning demand by companies, as this contributes to the employability of graduates. Scientists have recognized the advantages of taking JAd, as they are natural assets of information not created for research purposes. Furthermore, the analysts will reach a big proportion of the JM while adopting JAd, as these docs are progressively possible online. However, there is little literature on JAdS in the study, enough guidance in the literature on the types of inquiry that can be answered over the study of JAdS, and what scientific threats analysts may face in their studies. In this study, the relevance of JAdS is investigated as data for study aims and the charity to research design, process, and qualification.

The JAdS in this study came from countries with various histories and tiers of design expertise. The basic prediction of this research is that the design process is dependently placed: designers in various countries may have various authorities to fulfill within organizations. In terms of the promotion of policy design and strategy, this research finds arguments for and against the idea that similarities between various contexts exist. Especially, designers working in technology-based companies have the same actions and authority disregarding the country in which the effort is. Nonetheless, this technological significance is not automatically classical of all the models played in GD. Raulik, (2010), described that “social, political, and economic contexts are very important for developing design integrity in various countries”. Relatively, it was found that the overall skills depicted in JAdS more frequently mentioned classical graphic design skills as well as expanding into fields equally “business”, “research” and “coding”.

## **2. LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT**

“GD historians recognize the advancement of the area by looking at relevant events equally the advancement of letters and manuscripts, the design of printing, the technical innovation, and the digital innovation” (Harland, 2016). However, revealing the historical starting point of GD is a challenge in itself. Margolin, (1994), points to a historical issue in GD when some writers use GD identically in any kind of visual conversation. It then especially points to the effort of Hollis, (2001), who makes a clear characteristic in GD and another kind of visual conversation in the account of the history of graphic design. Margolin (1994) proposes that separating GD from other visual communications helps understand and trace the past and advancement of the careers. Technological evolution across the past few decades has had a significant effect on the history and works of designers. Especially, Julier, (2017) discusses how technological evolution in the late 1980s influenced the way designers efforts. The most important transformation is time-consuming: layouts are much quicker to build and wield than the classical way. GD’ers gain agility and quickness in breeding concepts in advancing visual works in computer tech. Furthermore, “computers became the media, and the introduction of hypertext in 1987 allowed designers to design using screens and for screens” (Julier, 2017). In summary, GD practices were transformed by technological advances that influenced the way GD’ers work, which concurrently removed barriers for new practitioners of GD.

### **Defining Graphic Design**

The design has no compromise on how it should be defined (Poggenpohl et al., (2004)). Furthermore, design definitions are continually under construction, but also decentralized, circulated, and disorganized (Julier, (2013:50)). Harland, (2011), presents “the notion that typography, illustration, print, and photography are the classical domains of GD, but fails to fully capture the complication and effects of GD in society”. The purpose of conversing the jargon

used to define GD is it influences the compassion of education. Jargon is an important part of the GD process, as GD'ers effort to translate language into visuals (Tomes et al., 1998). "Defining the boundaries of GD is challenging, as the discipline is anxious with problems of the humanities and social sciences, objects and experiences, people and messages" (Davis, 2012:234). Both as a research discipline and as an expert practice, has always had links with many other areas of practice and research. From an academic aspect, Giloi and Belluigi (2017:8) state that the definition of GD influences what designers do, the type of thinking involved in the design, the design process, and the nature of the design product. From an education and process perspective, Waarde, (2009), suggests that GD needs a more precise interpretation to enhance practice and qualification. Relatively, scientists recognize the threats and advantages of describing GD as an area of process and study. Meron, (2021), suggests that even GD'ers think that the term GD limits their expert contribution. Buchanan (2001) shows the evolution from GD to conversation design to emphasize the role of the communication profession. Cezzar, (2017), and Walker, (2017), argue that the term conversation design is synonymous with GD. Triggs&Atzmon, (2019:11) point out that by adopting conversation design, GD'ers blur the border of action by cooperative with the other method, the authors propose that the premise conversation design reverses an influence above the classical "sub-areas" of "poster design", "books", "typography", etc. The shift from GD'ers to communications designers means that writers are claiming more space for the profession by broadening the charity that GD'ers make. Nonetheless, "GD is still built on graphic elements equally illustration, typography, photography, and print" (Harland, 2011). Past conceptualizations of GD have used various categories to summarize and explain what GD is. Harland, (2011) highlights the "human dimension" when indicating to GD professionals, but also takes an expansive character of the area in attributing to the function polished by a GD'ers work and the context in which that work occurs. Overall, this study found four different themes in the way graphic design is defined, namely:

### ***Visual Aspect***

Visual aspects and VE of GD are recurring topics that are approached in the literature. Briefly, GD uses VE to translate written demands into visual results (Tomes et al., (1998)). In this case, the GD'ers are supposed as primarily responsible for constructing, selecting, and arranging the VE to convey the message. As briefly stated by Davis and Hunt, (2017:21), visual elements are physical signs and symbols used to communicate. These VE used by GD'ers are the 'construction blocks' to create visual results. Tools are described as the instrument adopted to relocate a concept to the shallow. Discipline is more similar when it comes to visual results. Contributing to an expansive view of VE in GD, Waarde, (2009)) also proposes that animation, audio, and video are part of the VE adopted by GD'ers in their effort.

### ***Visual Results***

The VE used by GD'ers is then used to build visual design results. Thus, GD'ers arrange aspects on a specialized surface. David&Hunt, (2017:24) state, the connotation of information calculate not only on the option of certain elements but also on their arrangement in the visual area. Visual concepts equally ranking, comparison, guidance and frameworks are then compatible in organizing the VE into a visual outcome. Identical to design in accustomed, that the designer's effort is described in the form of open and complicated problem solving, the visual results designed by GD'ers are associated with problem-solving. In experimental research on the effort of GD'ers, by that, the GD'ers employ the problem-solving process when moving from illustrating updated docs to the breeding concept for visual outcomes, even if the designer is not aware of it in their reflective actions (Schön, 1984). Barnard (2005:169) distinguishes GD from art by the statement that GD can be characterized as "problem-solving", whereas art is "creative". By designing visual results, Frascara (2004) states that GD'ers try to solve problems posed by an organization. Ambrose and Harris (2009) classify the visual results delivered by GD'ers into physical and digital GD results. By printing messages on paper, GD'ers build a physical result of

their effort. GD'ers boundless digital results then can add sound, motion, and interactivity to their effort. For many organizations design is what happens on the screen, as designers represent wireframes and interfaces (Buley et al., (2019:17)). After that, GD'ers are advised to work with websites, animations, films, and interfaces that extend the kind of results GD'ers deliver and suggest that GD'ers need to bring in a new set of digital experiences.

***Functions: instruction, ornament, conversation, seduction, illusion, metalinguistic and phatic***

The results of visual designs designed by GD'ers supposed in textbooks have the purpose of informing and/or decorating. When designing visual materials, GD'ers are described as being answerable for signaling beneficial instruction about a product/company that differentiates it from others (Newark, (2008)). The decorative function, or aesthetics, refers to the result of visual design which has a purely ornamental role (Barnard, 2005:15), especially, the result of visual design continues as an asset happiness, and pleasure. In distinction to the informing role, this role has a major significance on the visual demand of a visual result. That said, in some cases, the instruction and ornament functions are interlaced. By effective recognition or ornamental function, visual design results are also involved in the system of conversation and seduction. Buchanan, (2001) claims that conversation is the main aspect of GD. Identical to the conversation role, the results of visual design are also supposed as having a model in conversational users towards certain behaviors. Barnard, (2005:15) puts it, the task of visual output is to seduce, satisfy, or simply influence a transformation of reflection or behavior. The persuasion in GD occurs in three various fields: advertising, propaganda, and communication of social interests (Frascara, (2004)). GD'ers can provide a variety of physical and digital outcomes for the sake of persuasion.

***Context: the brunt on society by GD'ers***

By referring to the 'overall' function, Barnard (2005) exemplifies the context in which a graphic designer's work occurs in line with the context proposed by Harland (2011). Overall, the context in which a graphic designer's work takes place has a lot to do with the impact that work has on society. Harland (2007:10) states that GD can be supposed as a social aspect. It is a form of universal depiction that can be used as a quotation of how people connect on a local, national, and international scale. Apart from influencing how people connect, GD outcomes are supposed to be developmental in how people react (Frascara, (2004)). Thus, the work of GD'ers is proposed to increase the probability that the message will be accepted (Ambros et al., 2009). GD'ers are supposed as having the capacity to format behavior and a duty to commit to the public assumption of environmental and social issues (Meggs et al., (2012)). Likewise, GD'ers jobs are answerable for constructing, breeding, and impressive societal values (Barnard, 2005). Especially, by producing visual results to convey messages, GD'ers have the right to build a visual culture (Harland, 2007) that spreads discourse and promotes values.

**Graphic designer work**

This distinction in creative practice and management is noted (Julier, (2010:238)), marks the world of design as being 'messy, mundane, and boring, in contrast to the broader conception of genius as "spontaneous" or resisting guiding and authority (significance by the authors of this study). The choices made by designers are defined as part of the creative system (Martin, (2012)). Laing&Masoodian, (2016:189) and Laing et al., (2017), examines how image influence influences the creative design activity of GD'ers. In both studies, the way design students engage in the design ideation activity is studied. GD'ers are involved in 'creative' tasks equally blueprinting and breeding concepts to solve design problems. Relatively, scientists present graphic design efforts with a significance on the creative activity, referencing GD'ers as professionals that are given a creative 'spark' to solve design issues. In reviewing the literature on how the innovative activity efforts in GD studios, Jacobs (2017:174) wrap up by that:

“Management and economic concerns shape the creative process in much more than many GD lecturers would like to admit”. Studios need to introduce management activities to operate efficiently from an economic aspect.

### **Graphic designer skills**

Starting from the basics, GD’ers select “typography”, “colors”, “shapes”, “illustrations”, and “photos” when constructing a visual outcome. These are aspects that GD’ers use to convey messages in their effort. Knowledge of tools is another graphic design skill area. In particular, GD’ers use items equally like pens/pencils, paper, computers, and design software as tools to do design work. Ambrose and Harris (2009:150) in adding that digital and analog equipment allows designers to explicit themselves in a variety of ways to analyze and advance price ideas. They also mention several tools equally cutting mats, brushes, drawing tablets, and scanners. The science of methods for fixing GD problems is an additional graphic design field of expertise. Cezzar, (2017), in the professional guide for GD’ers added that GD projects consist of “study”, “ideas”, “prototyping”, “iteration”, and “presentation. Regardless of the approach used, GD’ers acquire design approach experiences to be able to solve the issues they face. In discussing the trend of assessing the work of GD’ers in education, Giloi&Du, (2012), also emphasize that conversation and team effort are necessary for GD’ers. Furthermore, Littlejohn, (2012:36), quarrels about interdisciplinary competence and combining competence’ as 2 non-classical competencies for GD’ers. Another common skill quoted in the current literature for GD’ers is the capability to do study. GD’ers are asked to base their project decisions on the empirical study (Littlejohn, (2017)). “That more science is needed in design study methods, including participatory design, co-creation, and interviews” (Frascara, (2017)). Heller, (2015:11) also features that experiences outside the field of design, equally study and writing, are progressively essential to a well-rounded career. Ensuing this idea, GD’ers will evolve from classical visual aspects to cooperate in breeding and characterizing text. Othe generally quoted skill for GD’ers is business science. Heller, (2015) shows that GD’ers must have a basic compassionate for business fundamentals. Giloi&Du, (2013), argued that entrepreneurship is a qualification for GD’ers. In the DM literature, designers who acquire business experiences are supposed as being able to “move up” in the corporate organizational hierarchy.

Overall, as design issues turn into more complicated, GD’ers are needed to have a wider dimension of experiences. The literature indicates that GD’ers must bring skills ranging from VE to GD tools and methods. Also, the literature indicates many common experiences that GD’ers must have. These universal experiences are not only important to GD, but are shared by several different careers. This research study aims to bring guidance for GD’ers in planning their careers and acquiring skills. Furthermore, this research contributes to the narrative discussion on defining GD and the effort that these professionals do, in particular by looking at how language is used in JAds and how that language model the profession. This research presents the various maps in defining GD, the effort done by GD’ers, and the experiences required to produce in organizations. The language used to define the GD model professional practice (Giloi&Belluigi, (2017)). As such, the language used to define GD is relevant in determining the price the designer brings to the organization. In this research study, the jargon adopted in JAds plays a relevant model in describing the effort of GD’ers and the expertise of this expert. Additionally, the jargon used in JAds is part of a typical historical settlement in academics, action, and qualification about what GD is and what GD’ers do for organizations. Overall, the typical historical in the design literature is that design is the action of adopting aspects to provide a visual result. By doing so, the graphic designer is represented as a function of information, decoration, conversation, seduction, illusion, metalinguistic and phatic.

The literature indicates that GD’ers must know visual aspects, appliances, and schemes. Given the complication of the issues wasted by GD’ers and how teamwork is required to clarify them, GD’ers are described as bringing experiences further the field of design equally through

communication, teamwork, study, and business. Relatively, descriptions of the graphic designer's job and expertise lie in theoretical articles and textbooks, shaping the historical that GD'ers are experts anxious with boundless visual results. While the knowledge of creating VE and results is still highly compatible, the GD process is more complicated and designers use it to develop their improvements and experiences in other fields. The threat for design lecturers, professionals, and analysts is to deal with how design is changeable in regional situations and how technology is influencing GD today. This study fills this limitation by analytically studying the experiences and jobs supposed by organizations in their JAd. In particular, this study's purpose is to assist DP in designing their profession ways on the premise of experiences established purpose is to bring a scheme for design lecturers to plan their academic process. Finally, as an emerging research area, this study aims to commit to the new version construct in the literature about defining the effort and skills of GD'ers.

### **3. METHODOLOGY**

After reviewing the literature in the area of GD and DM, it is noticeable that previous study is not too intense to be treated as "mono-methodological" (Crilly, (2019:79)). Accordingly, empirical study on DM and the value of design to organizations is primarily conducted through interviews and surveys. Multiple perspectives have the potential to enhance the compassion of GD study and practice. In this study, analysis of job advertisement docs was chosen as an approach to explore the skills demanded by organizations when recruiting GD'ers. Alike to methodologists (Bryman, (2012)), doc investigation is a methodical mechanism for analyzing "printed" and "electronic" words. Analysts can analyze the activity of typing docs or the contents of a doc (Coffey, 2014). This study takes into account two perspectives with two considerations, first, s.

#### **DATA ANALYSIS**

##### **Job advertisement doc investigation**

"Doc investigation contains reading and interpreting the text in the document" (Bowen, 2009:32). Coffey, (2014), proposes the doc investigation could pursue the principles of thematic investigation for a more qualitative method. To follow the thematic and content analysis, this study reviews the text of the methodology on how to carry out the thematic and content investigation to carry out the job advertisement doc analysis in research. The thematic investigation is a poorly defined and hardly recognized, but extensively adopted qualitative analytical method (Braun et al., (2006:77)) in areas equally the social sciences, psychology, and health. Content analysis is a model for building assumptions about a word, or a class of words, by susceptible examples from given characteristics. "The content investigation is treated as 1 of the most relevant method in social science because it studies the cooperation in society that appear over speech and text (Krippendorff, (2013)). In short, the thematic investigation was adopted to establish the coding scheme in the study, and during the content, the investigation was taken to code and calculate the frequency of demands stated in the advertisements.

JAd brings essential data for compassion the skills expressed by organizations when seeking to employ graphic designers. In design research, the doc has been given a major role in previous design research publications. Especially in the GD study, Meron (2021) reviews discussions in GD online forums to appraise graphic designers' perceptions of their positions. Stable job advertisements (Lester et al., 2017) do not rely on retrospective records of past phenomena, where an informant may not remember compatible elements about how the event unfolded. By JAds research, a wider portion of the JM for GD'ers can be covered than is worthy by Other data selection approaches, such as interviews. Since JAds is openly and openly advertised docs, a more important total of enrollment cases were collected and then compared to other research techniques – a total of 3007 cases (Kim&Lee, (2016)). As noted by Carnevale, (2014), between eighty and ninety percent of job vacancies completing a bachelor's degree are published online,

that the typically the fact for GD'ers. However, some limitations were encountered when using JAds in research. To get over this limitation, this research collected JAds from several generic job boards such as LinkedIn specifically for graphic design.

### **Instruments and Data Processing**

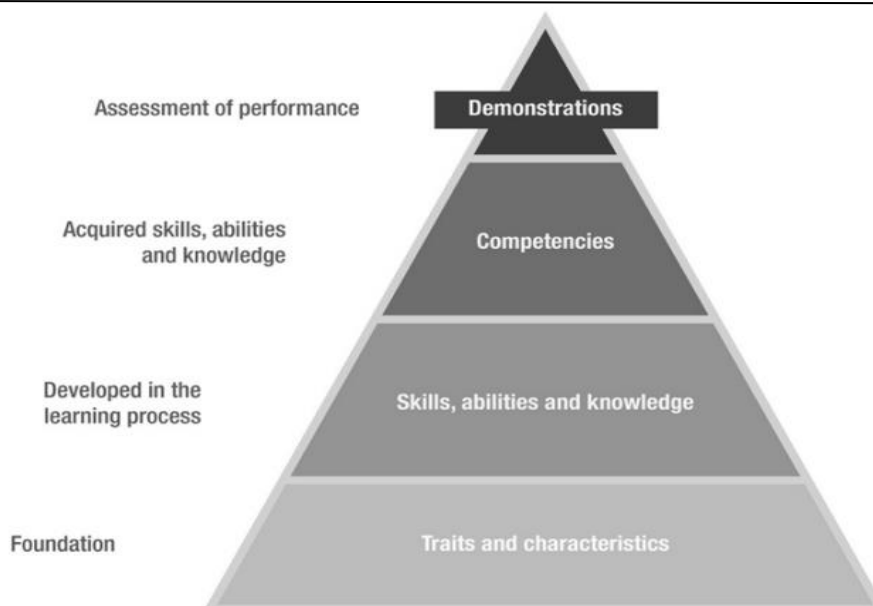
This study collected JAds available online, the bulk of the research adopted the specimen size of less than two hundred and fifty JAds and catch less than 1 year of data by the online job boards with a total of 3007 JAds specific to the field of graphic design. Job ads collected from design recruitment websites. The activity was initiated by meeting with lecturers and professionals and querying the web that is compatible with the different countries studied. An extensive search was also conducted to cover significant job advertisement packages for graphic designers

### **Data analysis**

To carry out the analysis, the coders in this study relied heavily on a professional understanding of the standard in GD to make a qualified read (Atkinson&Coffey, 2004:72). By the methodologists, pieces of literature are not biased (Krippendorff, (2013)), because they are made for specific purposes ensuing social agreement and the part of the network of relations in humans and community (Gorichanaz&Latham, 2016). Overall, the coders preferred for this study were able to tolerate the language used in the JAd, and entrenched their current expert and academic backgrounds. Throughout the loss of skill classifications in the literature to provide a coding structure, the thematic investigation was adopted to construct a coding structure for the study inductively: a fragment of the JAds was preferred and a different quotation to the invitation was coded in-vivo. Content analysis is used when coding the entire data set deductively, using a pre-generated coding scheme. In the activity, the frequency of themes in different JAds is negotiated. In short, thematic investigation is adopted to inductively frame and clarify coding schemes, and during the willing investigation is adopted to deductively code and quantify the frequency of demand made by organizations in JAds.

A variety of inductive and deductive methods for coding JAds is compatible with retaining the code associated with a particular data set and has currently been adopted by scientists in marketing and library and information science (Bronstein, (2015)). By constructing a coding scheme for different research entrenched in the data alone, the coding scheme will accommodate the diverse requests that organizations make in their advertising. The specialized steps and actions taken in analyzing JAds were enhanced during this study. In particular, the coding activity and several coders were changed continuing to revise how the skills of the designers were mapped and entrenched in understanding the method by the area of qualification. In terms of coding processes and their number, some phases have one coder while others have multiple coders for the reason of increasing compassion for the coding scheme and its reliability. By having many coders, the coding process can be compared and corrected if necessary. Without sunny guidance from the current study on how to outline the experiences of a graphic designer, a set of demands stated in advertising was started by the skill-based learning method (Voorhees, (2001)). The "Voorhees model" has been adopted previously to characterize the skills and skills of technical designers. The pyramid scheme of this study is branched into 4 tiers: 1<sup>st</sup> is assigned to individual mentality and personality from the base learning. 2<sup>nd</sup> tier assigns to the science, experiences, and character advanced over academic action. 3<sup>rd</sup> tier assigns to the skill advanced over centralizing the learning process. 4<sup>th</sup> tier assigned to presentation, that the work-based learning could be negotiated.





**Figure 1 “Conceptual Learning Model”**

Since the model was advanced for academic appraisal, this research uses only 3 levels (tiers) to set the demands listed in the Ads. The demand made by the firms in this study was inspired by the Voorhees (2001) model. In particular, graphic design expertise is described in three main areas, including competence, skills, abilities, and knowledge as well as traits and characteristics. In addition, subcategories are also created under the science and skills category, where requests are classified based on activity management experiences, conceptual design experiences, technical design experiences, and software experiences.

#### **Interview thematic investigation**

Interviews bring useful direction to accessing responses to study questions (Silverman, (2016)). The analysts can control questions that will point to the required responses. It is consistently worth taking “probing questions” to analyze concepts better (Yeo et al., 2014:195). The interview method in this study uses expert interviews (Flick, 2004) as a kind of interview adopted to accompany judgment by the application of other research approaches. This interview was then adopted as a “form of data triangulation, that the allegation by the interview that finally take to approve the investigation of previous Jad” (Silverman, (2016)). “Semi-structured interviews” (Silverman, (2016), that adopted to establish research data which were then analyzed and expressed in research. Even if the purposes and ways of breeding data by interviewing in research are different, the same rigorous approach as suggested by methodologists is followed to collect and analyze data. The results of the interviews were analyzed following the principles of thematic analysis.

#### **Methodical literature review**

A methodical literature review was assisted to gain a deeper aspect of how JAds are used for study aims. A methodical literature review takes a more accurate method and purpose to purpose research in a positive time frame (Potter, (2004)). The other literature reviews how JAds are adopted for the study (Kim&Angnakon, (2016)). However, both studies only looked at studies posted by librarians and information scientists, not seeing how JAds were adopted in other areas. In exploring how JAds is used as data for the study, in the different papers the research objectives are coded, advantages/disadvantages of JAd, methodological choices made, data collection, and data analysis.

### **Improving the quality of research**

Reliability refers to the accuracy of the communicated research steps, allowing other researchers to imitate them. Content investigation experts point out that reliability increases when various analysts can repeat the study and obtain the same outcomes. The procedure for coding the words must be done fully so that many analysts will come to the same conclusion because replication is the most relevant the accuracy (Krippendorff, (2013:24)). The main process that is used to increase the accuracy of this study. 1<sup>st</sup> provides an overall overview of the steps taken to collect, handle and analyze the data. As Flick (2004) points out, reliability increases when more detailed study processes are communicated. Especially, the part of the research approach provides a detailed description of how the research was aimed. Second, involving multiple coders in the coding process, an agreement between codes measures the degree to which several coders recognize during accepting the same coding structure to the same data set. Regardless of the convenience of calculating intercoder compromise for expanded accuracy, this is the distance by the typical process in JAds research.

In this study, the principle of the coding structure interviews with lecturers/professionals assessed the coding scheme for research was presented. This procedure serves to validate the coding scheme that includes demand made in JAd. Furthermore, the agreement between coders was tested. "Krippendorff's alpha" was chosen to calculate intercoder compromise because it is the most common measure of compromise with the convenient interpretation of accuracy in a fulfilled investigation (Krippendorff, (2013:221)). In doing so, the accuracy of the coding scheme and the coding activity is improved because many coders have the same compassionate for how to advance with coding a job advertisement. Generalizability (or external effectiveness) affects how valid study findings are in contexts various from those in which the study was conducted. Alike to Flick, (2004:407), the generalizability of outcomes is generally firmly tied to the way the sampling is conducted. The generalizability of this study was negotiated about the sampling approach used. The diverse nature of perception, community, and financial condition enhances the generalizability of the findings of this study.

### **4. IMPLICATIONS**

Visualization is emphasized over the use of the "visualizer". The candidate must also have well-advanced experiences in "creative design", "portrait", "typography", "lettering and art guidance", the ads' focal point of the designer's effort in premises of boundless visual output. Ensuing the same concept, the ad emphasizes that consideration of elements will be paramount, in the same, wathe y an "eye for design" is quoted in imaginary JAds. This concept is also repeated many times in the real JAds inspected in this study. Furthermore, to design demands, the Ads characterize the outstanding applicant as a "boy or girl", which explains a story about how JM during the 1980s roled. JAds shows the passage of the labor market which can enthusiasm analysts with various schedules. Job advertisements reflect the past and guide future professional development. Organizations describe their professional demands at any given time. This concept is decorated by turned at a former job ad since 1986. The JAds bring relevant information that models a profession. Adjustment between the demands published in the JAds and self-improvement is one that design graduates and professionals must think about when seeking situations in the market.

In interpreting the eventual development of an occupation, JAds also have a role to contribute to the monologue on an expert's personality. An identical controversy can be made in the case of JAd: defective representations in job advertisements can build wrong assumptions of both experts applying for positions and experts viewing job advertisements for self-improvement aims. Similar to Harland (2016:23-24) who explains his argument about how GD has changed over the years. Technology has changed the way GD'ers efforts since the late 1980s. Currently, it is not possible to separate GD from technology such as 3D software. Today, GD'ers are placed in multidisciplinary teams, either in design consultancies or in internal offices, correcting more

complicated issues. The ability to 'team work' was a recurring demand made in the Ads gather in this study, specifically, the three different country groups had a significant presentation of 81.4%, 61.5% and 13.7%. Especially, GD'ers are brought in to cooperate early in the activity, rather than being announced to add a "visual sparkle" at the end of the project.

This development of the capacity of GD has a direct impact on the way GD'ers work and the skills they require. Concurrently, rendering visual results is only part of a graphic designer's job. Based on the JAds in this study, GD'ers are also involved in the study, business travel planning, and content writing. Keeping with the complication of the problem and the multidisciplinary team in GD'ers is established, a variety of new experiences become essential to effort with, equally "agile methods", "business", "coding", "user-centric design" etc. In summary, continual changes in the capacity of effort of GD'ers require stable investigation of the relationship between the effort performed and the experiences required. Ensuing the perception of the price design overtone to organizations, designers are expanding the process and improvements. This job development also requires skill expansion – to produce digital design projects, one must have digital design skills. By broadening skills, designers can broaden the activities they perform and the contributions they make – having learned business skills, now can cooperate in the trade preparation process.

The continual modification of the effort distributed and the experiences designers bring is a subject that design lecturers, professionals, and analysts can pay close consideration to. Lecturers can configure the design qualification and experiences their graduates will gain before moving into the JAds. The practitioner must recognize that design is a profession that demands continual studying and, accordingly, the development of the profession regularly. Similarly, using job advertisements, the scope of the analysis is broadened by looking at the language used to describe graphic design professionals. However, this research does not analyze each recruitment case in depth. Overall, during this study, a large number of enrollment facts - 230 to 1,406 were covered. The alike inflated amounts will be crucial to dress up against other study methods. Nonetheless, it is impossible to gain an in-depth compassion of every enrollment activity and, in particular, how companies define graphic designer jobs and skills. The future scholar may aim to study some cases in depth, instead of aiming to broaden them. Scholars may want to look into recruiting cases for more senior positions where companies may not publish JAd, but may use recruitment firms and/or individual systems to catch competent candidates. JAd can also be useful for design analysts excited in design protocol, the JM for designers, and the experience of design in different countries. JAds bring information about the opinion of organizations in a country about the effort and expertise of designers. Monitoring the JM can add layers of information to what it means to be a GD'ers today. GD lecturers are in a good position to critically appraise the demands put forward by organizations hiring GD'ers and making changes to their academic practices. Even if design education and the JM operate on various timelines GD lecturers can control what is happening in the Ads to classify trends in the design career is headed.

### **Defining GD: the work and skills of GD'ers**

In carrying out these roles, scientists also describe GD in terms of conversation and persuasion. Relatively, GD is supposed as a problem-solving activity that has an impact on society. However, to fulfill the function of work, graphic designers must bring several skills both in the field of design and other areas. Relatively, the literature proposes many aspects in terms of the experiences required to work as GD'ers. This study presents empirical evidence of the competencies that organizations seek when hiring GD'ers. Moreover, the study expands the typical narrative that GD is primarily concerned with visual outcomes. The number of demand in different research by the 35 to 40 codes. Each code represents one type of request that an organization makes in its job advertisement. GD'ers are expected to bring work in a variety of

fields, from printed materials to digital interfaces. Demand in “print design” or “digital design” is the 1<sup>st</sup> and 2<sup>nd</sup> most demand after jobs quoted in the JAds, respectively.

The job advertisement mentions the personal characteristics that graphic designers are looking for in premise be the “self-moving” and “aesthetic and visual sense”, “smartness” and “creativity”. Relatively, given the high demand found in advertising, graphic designer skills are supposed in a more extensive form in advertising than in the literature. This expansive range of skills demanded by GD’ers demonstrates that today, organizations expect GD’ers to go beyond the visual aspects of products and services. For advertisements “project planning and administration” was quoted in 57 percent of Ads, “team management” in nineteen percent (38 percent in high-level positions), and “client relations” in 16 percent while in some other countries “project management” was quoted in fifty-two percent of Ads, “leadership” in ten percent and “client relations” in twenty-five percent. Finally, “project management” was ly quoted in seven percent of Ads and “client relations” in 1 percent, during team leadership was not mentioned. Evidence that the work of GD’ers is 'creative' and 'ordinary' is also found.

This research found that the demand made by some companies emphasized product and process-related roles, while primarily on brand-associated roles. This assertion is backed by looking at how often companies mention “process management skills:”, “conceptual design skills”, “technical design skills” and “software skills” in their JAd. Conceptual design and process management skills refer to the more strategic contributions made by designers on the premise of customer relations, trade, and “project management”. The demand for experiences demonstrating this critical model, equally “client relations”, was much higher at 25% and 15%. Another skill with a big difference was “project management” with the respective percentages being 57%, 56%, and 7 %, “business” 23%, 63%, and 23%, and “development concept” 28%, 32%, and 7%. furthermore, technical and software design experiences indicate to more “hands-on” science in advancing and boundless design projects. When looking at skills demonstrating traditional roles, the demand across the three studies was similar.

Overall, the job and skills of a graphic designer are extensively described, both in the literature and in JAd. While some scholars prefer to use the term communications designer to denote the expansive contributions of GD’ers, others prefer to stick with classical terms. This expansive description, in terms of the required competencies and outcomes of GD’ers, aligns with the debate about how (graphic) design extends its charity to organizations from a product-oriented to an activity-oriented approach. In the job advertisements collected for this study, organizations asked for a broad range of skills when hiring graphic designers from this study, and it was found that organizations looked for between 35 and 40 types of competencies in GD’ers. The skills and expansive contributions expected of these graphic designers bring good and bad news to design lecturers and professionals alike.

Graphic designers have traditionally been recognized for visual improvements to society. However, along with design in accustomed, the charity made by designers is expanding close to a more strategic and holistic contribution to society. As the charity normal of GD’ers evolves, their skill set must follow. The evidence that organizations require experiences in “trade”, “study”, “problem-solving” and “user-interface design” shows that the price that GD’ers bring goes beyond creativity and visual contribution. Apart from changing skills, GD’ers are also working under new titles equally “UI dan UX design” (Grafia, 2019). As Meron (2021) points out, even GD’ers feel that the term “Graphic Design” cut down their charity to the organization to a mere visual output. Organizations do not limit themselves to asking for GD experiences or using the job title “Graphic Designers” when hiring GD’ers: employing managers ask for experiences that surpass the classical capacity of GD as a visual activity. Educators and design practitioners are strongly advised to strategically and carefully deal with the experiences that wish to further advance.

GD'ers have many options for developing their career. During the JAds in this study given between 35 and 40 various types of demand that employers seek, the mid-number per JAds class from 5-11. Organizations emphasize in their advertisements skills that are compatible with them, but may not be compatible with other organizations. GD'ers find work in a wide variety of companies and cooperate with professionals from other fields. Proper collaboration occurs over shared science. Especially, GD'ers use to have a typical language with other experts. One way of constructing this typical language is by extending the expertise of GD experts to other fields. Fortunately, other experts are also trying to learn about design. Current technologies, evolution in society, and changes in the financial situation will lack GD'ers to accommodate the condition at hand. For that reason, a continual learning character will help graduates to accommodate and take on new demands effort as GD'ers in the eventual.

### Various Careers for GD'ers: Low Level to High level of Position, and Traditional To Digital Graphic Design.

In analyzing job advertisement representation of the different kinds of evolution, it is shown how skill demands change as GD'ers face these evolutions in their expert professions. 1 of the improvements of this study is the appearance of preference advancement. In particular, skill sets change when moving from a low-level position to a high-level position on the premise of expertise, science, and experiences and particular mentality that an expert necessity to get to achieve like evolution. Discovered new skills that needed to be acquired as they moved toward senior positions. First, the capability to conduct a team, in the premise of training and guiding other (low-level position) staff. Second, the science of business, marketing, and others become characteristics more general as you move from junior to senior levels. Third, having an understanding of the process is important. Finally, the capability to create "illustrations" for use in graphic design results is becoming more common in high-level positions. Because illustration is a complex skill that novice designers rarely have. Two other experiences show non-linear establishment: "coding and platform management" occurs more frequently at stunning from a low-level position to a mid-level position, but declines when moving into a high-level position. "Self-driven" in the premise of being proactive and willing to learn is less common at stunning up to a high-level position. As experts develop in their careers, the use to remark on these particular characteristics appears less constantly in JAd.

**Table 10. Positions in JAd**

<i>Job title</i>	<i>No.</i>	<i>Job title</i>	<i>No.</i>	<i>Job title</i>	<i>No.</i>
Graphic Designer <sup>a</sup>	54	Marketing Designer	3	Design & Marketing Coordinator	1
UX Designer <sup>b</sup>	38	Digital Designer <sup>b</sup>	2	Design Director	1
Web Designer <sup>b</sup>	24	Lead Designer	2	Digital Graphic Designer	1
UI Designer <sup>b</sup>	21	Motion Graphic Designer	2	Graphic Maker <sup>a</sup>	1
Visual Designer	21	Graphic UI Designer	2	Head of Design	1
UI/UX Designer <sup>b</sup>	11	Brand Visual Designer	1	Lead Creative Strategist	1
Designer	10	Communication Coordinator	1	Marketing Artist	1
Service Designer	8	Content Designer	1	Marketing Content Designer	1
Interaction Designer <sup>b</sup>	6	Creative Design Manager	1	Marketing Manager	1
Art Director	6	Creative Director	1	Usability Expert	1
Packaging Designer	3	Creative Strategist	1	Web Graphic Designer	1

<sup>a</sup>Traditional graphic design positions.

<sup>b</sup>Digital graphic design positions.

Specifically, in the data collection of this study, 903 JAds for “internal designers” and “363 positions” for “external designers” were found. Furthermore, many discrepancies were found in the demands made by recruiting organizations when seeking internal or external designers. Internal designers are asked regularly to submit “packaging and sales” materials than ‘external designers.’ In the premise of science and experiences, “internal designers” are receiving more and more demands in the premise of appearance and conversation, “project planning”, “team management”, “teamwork”, “digital photo manipulation”, “coding”, “detailing and production”, “photography”, “visual coordination”, “office software” and “website”. “External designers” are more often required to have science and experiences in “idea generation”, “client relations”, “motion design”, and “design passion” as personal characteristics. As such, demands to generate ideas are found most often in Ads for external designers compared to internal positions. The expansion of a graphic designer's work into the digital realm has also impacted the skills required to operate as GD'ers. In addition to the relatively needed competencies, five qualifications emerged in the analysis that is only relevant for digital graphic design positions. Digital GD'ers are needed to bring mobile and app interface design and have science in “agile methods”, “interaction design”, “prototyping”, and “user-interface design”. These 5 demands are then fundamental for GD students and experts planning to move their careers into the digital design stadium. Relatively, as shown in Figure 8, to build a career in digital design, experts may want to prioritize several experiences to advance their career in this expert path. The findings of this study indicate that GD'ers have various choices when planning their career paths. Additionally, by accumulating on-the-job experience, GD'ers rise to the high-level position. Finally, they may decide to move into a digital-focused role such as UI/UX design. It points out that GD'ers are needed to constantly review and update their skills according to their professional traits. These different professional directions for designers align with new discussions about the circulated designer model.

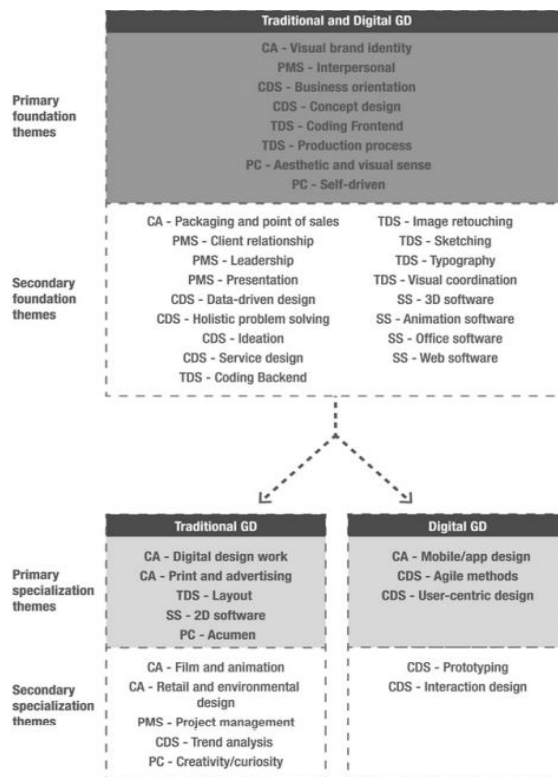


Figure 2 Platforms and specialization themes for classical and digital GD positions. CA = capability field; PMS = activity management experiences; CDS = conceptual design

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experiences; TDS = technical design experiences; SS = software experiences; PC = particular aspect

### **JAd as data for (design) study, qualification, and practice.**

By selecting JAd, scientists have successfully studied a big part of the JM, which also provides an opportunity to compare cities and countries. Additionally, “scientists have cited the benefits of using naturally occurring data” (Silverman, (2016)), “in the sense that JAds is not generated for study and found in natural settings” (Marcusson & Lundqvist, 2015; Shou & Wang, 2017). Furthermore, “experts have pointed out limitations, equally the fact that not all positions are openly advertised” (Bettinger et al., (2016)). Furthermore, “threats are found when interpreting and analyzing the data, as companies may use technical jargon” (McArthur et al., 2017; Meyer, 2017), overrepresent themselves and their positions (Kuokkanen et al., 2013), break down to recognition all the demands for the area (Chipulu et al., (2013) and/or reverse in the work advertise only the assessment of those convoluted in typing the doc (Brumberger et al., (2017)). Another topic of interest to DM analysts is the model of design in organizations. By adopting JAds as data, analysts can view the definition proposed by organizations in their Ads as an intermediary for appraising the role of design within a given organization. The relationship between the activities performed and these skill sets has previously been presented in the educational literature by Voorhees (2001), which states that to carry out an activity, an expert needs to have a certain set of experiences, availabilities and science. DM analysts can also appraise the science that organizations have about design entrenched their demands posted in their advertisements.

For professionals and lecturers, JAds serves as an intermediary for controlling the JM in 1 or several countries. Professionals and lecturers meet the threat of continually investigating their skills, as design as a career is constantly changing, which has an explicit effect on the skills of designers and the effort they do. Skill and activity descriptions in job advertisements tell practitioners and educators what organizations are looking for in DP. Nonetheless, organizations bring an ideal definition of the applicant, that doesn't consistently align with what the applicant thought of the career. This is in line with current literature which claims that JAds is a reversion of how an organization defined professional personality. So when an organization quoted in a JAds that the applicant must know coding it signals to applicants that designers in this particular organization are needed to effort by coding and know programming languages. Furthermore, the kinds of demands made in the JM can advantage lecturers by annotative academic processes that increase the employability rates of graduates. Relatively, JAds reflect the profession's past, by showing how organizations have portrayed their needs over time, concurrently that they affect the eventual development of the career, equally possibly developmental practitioners' academic and self-improvement process. Furthermore, the language used in JAds to describe the effort and experiences of DP indicates how the industry visualizes the identity of the design profession.

### **Generating secondary data: using job advertisements in research, education, and practice (design).**

To analyze JAd, analysts must initially decide between adopting human or computer coding. Human coding is better suited to minor specimen sizes when one or more experts can scan and clarify the data set manually. Furthermore, automated, coding is when a series of texts is detailed or copied from a data set, and the frequency and occurrence of the premise are negotiated. Computer coding is better appropriate for larger specimens. This research finds the majority of research of n is 190 percent take manual coding, by several coders feeding by 1-5. This study uses manual coding to uncover demands made by the company in their JAds. The reason is managed classify demands made by companies that are supposed to adopt a variety of various texts. By evaluating JAds manually, you can then clarify the definition of terms and not depend on lists of

texts, that is the one way to analyze JAds automatically. Furthermore, during study development, the quality of the coding activity was improved by adopting several practices:

**Choice of coders:** Krippendorff (2013:128) emphasizes that coders use to have background and freshness by the phenomenon under consideration, Even the most accurate recording/coding policy presumes that coders and content researchers have the same background so will clarify typed instructions in the same way. the same one. In addition, JAds may consist of expert jargon that complicates their analysis (McArthur et al., (2017); Meyer, (2017)). In this study, all coders had a mix of (1) formal training (degree) in GD and/or (2) practical background working as GD'ers. This academic and/or expert skill in GD is crucial in the activity of compassionate and coding JAds for GD'ers during their studies.

**Coders training:** Furthermore to initial compassion of the coding structure, Neuendorff, (2002:133) proposes that analysts conduct pilot coding that an allocation of the data is coded by multiple coders, and the outcomes are shared and discussed. In this study, an initial ad section was selected and a coding scheme was applied, and the outcomes were discussed across coders and other study authors. Current discussion and instruction of coders, followed by pilot coding, is crucial to increase coders' compassionate for the coding structure and, accordingly, improve coding processes and results.

**Coordination of coders and intercoder:** in this case, it was found that no more than 1-5 of the research had different coders, it's 30 research out of 209 or 14%). Furthermore, no more than 1-10 research adopted intercoder compliance measures it's 18 research of 209 or 9%.

**Break the coding process into sections:** When reading a job advertisement, coders must decide between thirty-five and forty codes to implement to different terms. The use of various coders and intercoder agreements (current item) helps to minimize the number of errors in the coding structure. Another process taken is to crack the coding activity into parts. Since the coding structure contains codes in 3 classes, the coding activity is divided according to these three categories. First, a different coder reads the JAds for quotation of design results, then the JAds are re-read for science and experiences, and finally for personal traits. Especially, every JAds is read at least 3 times when coding. By doing so, several codes that each coder has to deal with when reading the doc can be reduced. In addition, by reading different job advertisements several times, cases, where sentences are skipped or not coded, are also reduced. Coders use to have had a period of training and completed pilot studies to practice and agree on a coding structure. Intercoder agreements should also be used to improve the element of the coding activity. Finally, in the case of coding schemes with a large amount of code, it is highly recommended that the coding activity be broken into several parts and/or repeated several times to ensure decisive coding systems and results.

## LIMITATIONS AND FUTURE RESEARCH

This research contributes to understanding the work and skills of GD'ers over studying JAd. The first contribution of this research is to add to the current narrative that defines GD and the work and skills of GD'ers. The second contribution shows the various career paths available to GD'ers. These two initial contributions are intended for DP, lecturers, and GD analysts. For professionals, the science of the job and skills of GD'ers bring information about the skills needed by organizations and support experts to improve assemble for the JM. For lecturers, the science of the demands put forward by organizations can inform curriculum and program devising that simplify the evolution of alumni from university to company. For GD analysts, this research contributes empirical science about how the GD profession develops and develops in the countries studied.

A third charity climax the price of adopting JAds as a data asset for study and design practice. The final contribution provides practical insight into how analysts and professionals can use and analyze JAd. From developing the initial study's job advertising usage doc analysis, several



important lessons were extracted and synthesized. In addition, information from interviews and literature reviews was brought in to bring more of a foundation for the future use of JAds in study and practice. The last two contributions are intended for DP, lecturers, and DM analysts. Overall, graphic designers broaden their contribution as they move toward senior positions. In particular, graphic designers are starting to manage processes and companies, taking authority for more convoluted design assignments as well as professing the business process of design. The job of a high-level position of GD'ers is similar to that of a design manager as discussed in the previous literature. The cross-contribution in the premise of career transition is associated with how the position of the GD experts from this study influenced his expertise: the organization has an internal design office, and the designer's effort is inside and primarily for recruiting organizations. In other cases, the organization is a design specialist that offers design convocation to 1 or more audiences. GD'ers placements are identical to the common job variety settled for technical designers: domestic designers or design specialists (Kaygan, (2020)).

Designers have made a wider contribution to the organization by following the advancement process in the previous steps. Especially, the designer is present in the research or conceptual phase, not just in the technical and visual phase. These wider contributions have influenced the profession in different ways. In addition, current job titles are being assembled, indicating a higher level of specialization in the area. Today, a variety of job titles indicate that designers are moving toward specialization in certain sub-areas of the design occupation. For example, is the new reputation of "UI and UX designer" as a name, indicates that designers going to specialize in designing digital outcomes. A further contribution to this research is highlighting the price performed by JAds as an authority of data for study, qualification and process. Research adopting JAds is found in the field of library information science as well as in the fields of business, qualification, and health. In design, some analysts have adopted JAds to explore the demands publicized by companies.

Replaying the limitations barbed out by the current literature on adopting JAds for study, all accommodating executive talk for this study specified that they had reported texts in collaboration with another partner to bring a lot of perspective into the text. Additionally, in another case, the JAds were openly possible, as the engaging manager demanded to establish that more competition would have entry to the docs. Accommodation managers also specified that the aspect of text t in Jads influences the participants. Entrenched in the disagreement of current scientists and conversation accommodating managers and designers, this research proposes that JAds can provide (design) analysts, lecturers, and professionals as a substitute for the JM. These experts can determine the new condition of the JM by learning the demands that organizations make in Ads. For analysts, JAds brings an opportunity to explore how the profession is evolving in terms of the skills needed and the activities these experts engage in. One example is the effort of Choi&Rasmussen, (2009), which followed modifications that appear in the demands set for professional librarians by analyzing nine years of job advertisements. In addition, job advertisements make it possible to analyze this v advancement by seeing what organizations claim about their demand, with no limited sample size.

For DM analysts, the use of JAds can bring a current layer of information for their questions about how companies support and handle design. Hiring DP is noted as 1 of the first stage in using a design, alike like approach (Acklin, (2013) and case studies of how organizations used designs (Bailey, (2012). Furthermore, the DM study is primarily based on interviews and/or surveys. Identical to the study in this study, using JAds would give DM analysts a means to broaden the broadness of their investigation by being susceptible to the kind of data publicly possible online. The final improvement of this study calculated to the current 1 by featuring the process condition of using JAds for study and process. After reviewing the relevance and contribution made by JAd, this research offers guidance to analysts, lecturers, and professionals in planning their data collection, management, and investigation steps.

The choice of web and median is primarily created to entrench the researcher's knowledge of the field or in consultation with practitioners and experts. Today, online job ads are openly available on websites like "LinkedIn" or "Indeed", that gain connection to a wider range of job ads in the marketplace. Concurrent organizations are republishing their advertisements to attract the consideration of more "job seekers". Accordingly, analysts need to eliminate duplicate ads when acquiring data. In the literature review, it was found that most of the studies chose online job boards as the main source for collecting JAd. In this study, "online job boards" were taken as an affluent source for collecting data. Furthermore, to choose sources to collect data from, analysts also need to conclude on the sample size for their study. This research found the sample size of literature dimension from 5 to 250, whereas nearly ½ of the subjects had sample sizes ranging from five to 250. Susceptible to the area and domain of data collection, embracing a certain several JAds may not be available. The time spent gathering, organizing, sterilization, and analyzing data is impacted by several JAds in the case. Analysts must then equity the amount of assets available in their project against the desired sample size.

### **Conclusion**

In conclusion, JAds tells many stories in one document. Organizations illustrate what the designers should do and what experiences they should have. That illustration brings a lens for understanding how much organizations know about the design profession. Job advertisements give a picture of the company and its values. Analysts, professionals, and lecturers just need to know what to look for and how to do it. The job advertisement brings the point of view of the hiring organization, but multiple aspects can be added to generate full compassion for the job and skills of DP. Future researchers may further explore the relationship between these types of docs, (JAd and academic assignment). Overall, the outcomes of this study, and the methods pursued, bring accurate information for answering to direct demands displayed by organizations hiring designers. So, the outcomes and approach given in this study can be mixed with the professionalism and skill of design lecturers to plan the eventual scheme of what it means to be a designer and what is the aim of design in society. Analysts excited about design process administration can control innovation in the occupation and how they can influence designers' jobs, roles, and experiences. However, opportunities to further advance the improvements made in this research were identified, and propose some future study convenience. JAds tell one side of the biography, that the organization has oversight over the information. The current effort and experiences of DP are a topic of interesting debate among lecturers, professionals, and analysts so it is highly recommended that future work can provide multiple aspects of what designers do and the skills they bring.

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