

Adjusting the Landscape of Secondary Learning among the rise in digital workers across

Industries

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Research Methods and Project Planning

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### Executive Summary

This project involved the understanding of the changes in industries as it relates to student preparedness. The primary aim of the research was to design and construct website where information on the landscape of industries can be identified. This site will help student determine how to choose a major based on the availability of certain positions and careers. Initially, This is going to be a place where students can get a picture of what they can expect when coming into the workforce. Research was done to access the time frame that is to be considered. Following development of this problem, some fields were looked at as priority and compare to other fields that may have slower development of the digital workforce. Early automation initiates across industries have changed the way some jobs are done. This will continue to change as the technology to do automation becomes less disruptive to enterprise systems. After testing of prototypes, the site will be modified to improve efficiency and overall benefits realization. Some components will be removed and replaced by more efficient processes, example may be the swapping of some information provided based on user analysis and feedback. In order to meet the expectations of users, additional components will be added during early testing of the prototype. In construction of the final website, some changes were made to improve stability, reliability and effectiveness. The method of deciding what were the right fields to tackle was determined but considering the majors that are currently being offered at Mercer University. The site is expected to be very user friendly and will be tested for its acceptance by the user prior to the final competition.

### Introduction

Every major in Universities are derived to help students prepare for the workforce and a career. Each University is unique and has its own operating environment and sets of requirements to advance in a particular study. As a result, the execution of a the type and order of classes is subject to numerous deliverables that evaluate the students the commencement or progression of their education in direct reference to their aspirations in a particular field of study. This experience can invariably have significant negative and positive impact on overall student preparation. The negative implementation would be under preparing a student body for the current landscape of the industry. Successful and positive implementation of a course curriculum that is aligned with the current industry would ensure the success of the student body for the landscape of the current industry. Master planning can avoid short-term look-ahead scheduling. Understanding the movements within industry can provide a better view of a career and overall what changes can be made to the current way of teaching to align with teaching courses that might include process improvement with the understanding of the technologies that are available. Ideally, adding classes that include more technologies like automation can produce a solution for the demand for skills that include working alongside digital workers. This is going to cause the student to learn higher skills as digital workers will be selected more to do manual task that are involved in so many industries without notice.

### Research Question

This research project will provide an overview of the proposed additions to be considered by universities when managing and preparing the curriculum for the rising generations. What will be the landscape of the workforce that students need to be prepared for. In addition, it will propose a framework for managing careers with this current industry. The importance of developing a curriculum that is up to date with the movement in the industry. However, how do we track against the changes. First, industries have to figure out what route will be taken as industries standard. Today's jobs are becoming more and more technically complex and certain skills may soon become out of demand. The second thing to do is to add the essential skills to the schools so that we are preparing people for the work force. Aligning these will prevent the gap the skilled resources for the work force. In summary, there is a need for a better understanding of what the industry needs and how we can help universities provide skilled resources. More specifically, the following research questions need to be addressed: 1. What are the majors that will be most affected? 2. How do we align the majors to make sure students are prepares for the workforce. 3. What are the current industry practice as well as research advancements? The long-term goal of the research is to outline of how technology can help students prepare for the future of the workforce. Curriculum management is important when planning how students should learn and what they need for a long successful future. The objective of the current study is to provide a comprehensive review of automation in its current state and the industry practices in relation to what companies are requiring. Particularly, the study has the following sub-objectives: 1. To provide a comprehensive review of sources and characteristics automation. 2. To develop a classification method for easier understanding for piacular majors. 3. To review current industry practices. 4. To outline a conceptual framework for total alignment. The result of this study will

be valuable to the college and the industry practitioners as well as related software providers in developing better practice and tools for preparing students for the industry.

#### Proposed Research Methodology

This qualitative research will be done mostly through studies of the progression of companies adopting robots into their workforce. I will include the website for more adoption and a summary of the fields that may be effected for undergraduates to take into consideration. The goal is to provide details around the future of the workforce so that universities and students can be ahead of the curve and prepare the student for the workforce that is currently being created.

The data for this research will be collected through secondary literature and observations.

The population I will look at will be the current working-class individual as well as the aspiring students. I will also include studies from leading companies who are currently relying more on technology. I am familiar with this subject because I currently work in automation, primarily with RPA. The topic is important to the field and be of significance to others in the discipline.

In this research the dependent variable is automation and technology in the workplace. The independent variable will be the students and the universities.

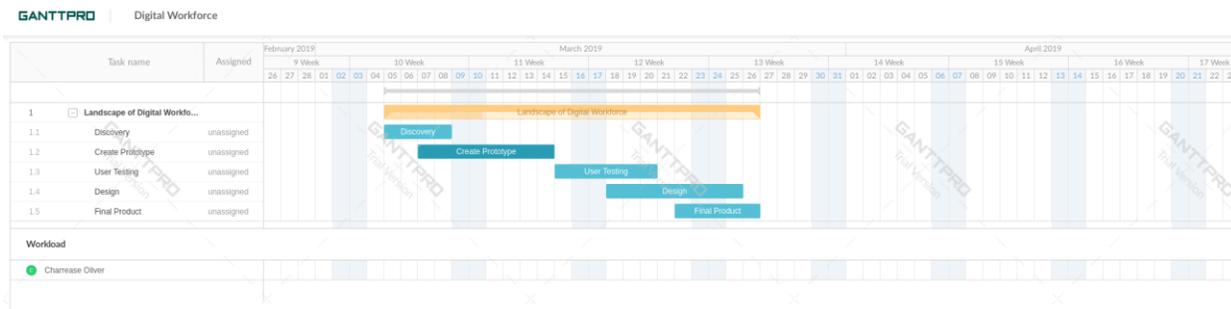
The data will be collected by considering real life examples of where automation was used and how it has affected the outlook of some companies. This will be captured in literature review and user analysis as well as through assumptions based on the current landscape of automation.

#### Proposed Data Collection

The type of data collection method that will be used will be case studies. Cases will be chosen to fully understand or depict the experiences in strategy and conduct comprehensive examination through cross comparison of cases. These can also fully depict stakeholder's experience in strategy input and results. Case studies represents the depth of information, rather than breadth.

Document review will be used. This will consist of review of applications, finances, memos, minutes, etc. Documents will help us get comprehensive and historical information Documents are an obvious choice because the information already exists. The downfall is that it often takes a lot of time, information can be incomplete. The last method will be questionnaires and surveys. This can quickly and/or easily get a lot of information from people in a nonthreatening way. The benefit is that it is easy to compare and to analyze.

### Project Planning Report



Illustrated above is the timeline that will be use during the research and development of the website. The dates will be hard date due to the fact that the final product delivery can not be delayed. The major deliverables will be the prototype and the final product. The prototype is necessary for the development of the final site with all the needed user input. I will get to those deliverables by staying on schedule with research and UAT. The milestones will noted at the end of each week. My audience needs and expects to have a product that they can use to determine where they should be going with their education. The stakeholders will get the final product after it has been developed and tested successfully.

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