Friday, March 15, 2024

**Model/Plan of Proposed Endeavor**

My proposed endeavor is to empower US companies and their workers and improve their competitiveness by unlocking better data-driven decision-making capabilities, this methodology benefits companies and likewise improves the employability of their employees by training them in automated and ai-based technologies which require no prior knowledge in coding, regardless of their role within the organization. I plan to develop a business model that will benefit numerous companies and workers, paving the way for future success in all sectors.

To achieve this, I will focus on implementing streamlined business processes, utilizing Robotics Process Automation (RPA)[[1]](#footnote-2), and AI technologies[[2]](#footnote-3) with no-code and /or minimum code knowledge, providing training to non-tech users to effectively use these resources. By integrating these activities, I will foster a data-driven culture within organizations, improving accuracy and expediting the decision-making process. In turn, I will contribute to enhancing the competitiveness of both U.S. companies and workers by equipping them with essential digital skills.

I will pursue my endeavor by building on my 15 years of extensive experience in technology and more that 5 years implementing RPA and Artificial Intelligence (AI) technologies, leveraging my extensive national and international experience in different companies in the implementation and improvement of innovative and flexible business processes using RPA and AI in flexible business processes, complemented by my experience as a university professor and as part of the STEM Council in Western Union, for the dissemination of knowledge in science, technology, engineering and mathematics(STEM), I will channel the efforts for the learning of specialized knowledge in modeling tools in decision making, I will pursue my proposed endeavor for the benefit of the United States.

My work will be disseminated in through publications in relevant venues such as my current website ( <https://aiml-robotics.com> ), active participation in conferences, and collaboration with industry specialists to advance knowledge and create to advance knowledge and create practical solutions for the design of private policy in the commercial sector.

**WHY MY PROPOSED ENDEAVOR IS RELEVANT TO THE UNITED STATES**

The United States is currently facing challenges in maintaining its economic competitiveness, mainly due to human factors and slow adaptation of its industry to changing environments. This reality is reflected in the fact that, in March 2022, the United States reached a record figure of 11,855,000 unfilled job vacancies according to Federal Reserve Bank of St. Louis. Unfortunately, this is not something conjunctural, it is a trend; in August 2009, this figure was only 2,338,000[[3]](#footnote-4). This means that industry in general is increasingly being held back by a lack of the talent needed for the new economic environment. For example, there is a shortage of close to one million software developers according to reports in *The Wall Street Journal*[[4]](#footnote-5).

It is clear that this situation is hurting the country's progress, productivity, and finally competitiveness. As an entrepreneurial consultant within the technology industry, I have experienced this problem first-hand, and have seen how many initiatives by entrepreneurs to modernize their businesses are frustrated by this reality. I have also had to witness how workers who want ardently to engage in such initiatives cannot do so because they do not have sufficient skills in programming or data management, despite their clear talent and experience in their respective industries.

My Endeavor mainly helps to tackle this problem, including the intensive use of no-code technology within business processes, which with adequate training allows non-tech workers who are being excluded due to lack of knowledge in programming or data-manage to be able to contribute with their inventiveness and experience to the industry, as it becomes possible for them to create their own automated software tools. At the same time, companies will benefit enormously, as they will be able to quickly modernize and adapt their business processes, obtain timely relevant information about their performance, and have more productive and engaged workers.

The automated and ai-based technologies will improve the decision-making strategies, creating a powerful synergy at all organizational levels, significantly improving results and competitiveness, that is, a data-driven culture. A study by Deloitte shows how companies with similar efforts developing a strong data-culture approach have double the probability of exceeding their business goals[[5]](#footnote-6).

I really believe in the potential of my Endeavor, and I have chosen the United States to develop it because the US is a serious country that understands the national importance of encouraging a **data-driven decision-making culture**. For example, the US federal government implemented the FEDERAL DATA STRATEGY in 2020[[6]](#footnote-7), and decided to continue this in the Biden administration through the FEDERAL DATA STRATEGY 2021 ACTION PLAN which demonstrates a national interest and commitment to promote this kind of endeavors setting as the first main objective of its Federal Data Strategy as follow: “Building a Culture that Values Data and Promotes Public Usage”.

**MY PLAN FOR ADVANCING MY PROPOSED ENDEAVOR IN TWO PHASES**

1. In the short term, I will achieve multiple collaboration agreements to help companies solve real-world business process problems. My work allows me to discover their common underlying needs and to adapt my techniques to the U.S. market and culture.
2. Once these collaborations have achieved a period of demonstrable sustainability, the next step will be to advance a distribution/business model that lets me extend the use of better, more accurate modelling based on a solid data-driven culture supported by trained workers taking advantage of automated AI no-code technology on their daily business processes.

**PROPOSED ENDEAVOR IN THE US AND THE THREE KEY ACTIVITIES TO DEVELOP IT**

Using my experience as a leader in business process implementation in technological environments and entrepreneurial undertakings, my endeavor in the US will be focused on the following three activities:

1. Implementing business processes
2. Using Process Automation (RPA) and Artificial Intelligence (AI) technologies, no-code technology as a tools.
3. Training non-tech team-leader workers to use it.

Applying these three activities together I will encourage a data-driven culture in organizations which will improve accuracy forecasting and simplify the decision-making process, this data will be sourced from basic automation processes based on RPA and AI technology. The primary goal is increasing the competitiveness not only of companies but also of workers through new digital skills. By introducing my methods and techniques, I anticipate a potential growth of the companies’ competitiveness, of up to 20%.

**PROGRESS TOWARD MY ENDEAVOR**

I have taken steps to advance Phase 1 of my plan, achieving important collaboration agreements that have gradually allowed me to adapt my methodologies to the American business landscape.

I have analyzed and created business processes for a new project using no-code technology for **Rhino Metals Inc** (Caldwell, Idaho), receiving feedback from its team and professional associates. This collaboration will allow the project to launch with low initial costs, addressing the shortage of trained personnel that had previously hindered progress. By implementing business processes using RPA and AI no-code technology, non-tech employees will take on programming roles, freeing the valuable time of the best software developers to tackle more significant matters. Unlocking this project will create five jobs for non-tech people. **Rhino Metals Inc CEO**  has expressed interest in my endeavor for further development and training in no-code tools, and oversight that new implementations align with the general vision of the projects.

Likewise**, Rhino Metals Inc** has expressed interest in my methodologies for modernizing their business processes, particularly in areas such as manufacturing, inventory, software, and trucking business for routing selection, optimizing revenue on backhauls. They aim to replace outdated paper-forms and manual transcriptions with digital systems, enabling information to flow directly from operations to digital production reports overseen by supervisors and IT personnel.

My contributions will lead to significant improvements in productivity and integration within non-tech workers, fostering a data-driven culture and the development of proprietary software solutions.

My ultimate goal is to enhance competitiveness within U.S. companies and empower team-leaders by leveraging their valuable industry experience with innovative and flexible business process implementations, supported by new technology no-code tools. This will enable better data-based decision-making for individuals at all levels within the organization.

Thank you in advance for your time considering my proposal.

Respectfully,

[SIGNATURE]

Oscar Jimenez Montero

System Engineer

1. # Robotic Process Automation- https://www2.deloitte.com/uk/en/pages/innovation/solutions/robotic-process-automation.html

   [↑](#footnote-ref-2)
2. Key benefits of AI for business-https://www.techtarget.com/searchenterpriseai/feature/6-key-benefits-of-AI-for-business [↑](#footnote-ref-3)
3. *Total Unfilled Job Vacancies for United States*- https://fred.stlouisfed.org/series/LMJVTTUVUSM647S# [↑](#footnote-ref-4)
4. *America´s Got Talent, Just Not Enough in IT-WSJ-* https://www.wsj.com/articles/americas-got-talent-just-not-enough-in-it-11571168626 [↑](#footnote-ref-5)
5. Analytics and AI-driven enterprises thrive in the Age of With: The culture catalyst | Deloitte Insights- https://www2.deloitte.com/us/en/insights/topics/analytics/insight-driven-organization.html [↑](#footnote-ref-6)
6. Federal Data Strategy 2020 & 2021 Action Plans-

   https://strategy.data.gov/assets/docs/2020-federal-data-strategy-action-plan.pdf

   https://strategy.data.gov/assets/docs/2021-Federal-Data-Strategy-Action-Plan.pdf [↑](#footnote-ref-7)