SHUBHAM C. JADHAV

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EDUCATION

M.S., Mechanical Engineering **Graduating Date: May 2024**
Arizona State University, Tempe, AZ **Grade – 3.50 / 4.00**

SKILLS

Skills: Microsoft Office (Excel, Word, PowerPoint), AutoCAD, Fusion 360, Solidworks, Ansys, PTC Creo, MATLAB, Python, Six Sigma Yellow Belt Specialization Certificate, JMP software, LabVIEW, myDAQ, Siemens NX.

WORK EXPERIENCE

Arizona State University, Arizona | Research Assistant **April 2023 – Present**

- Conducted comprehensive lab experiments and computer simulations independently, resulting in accurate and reliable data to support project objectives.
- Managed the entire assembly process of mechanical products, resulting in a 30% decrease in defects and an increase in on-time deliveries of 20%.
- Utilized MATLAB to analyze and visualize performance data collected from pump testing, identifying key areas for further improvement.

Arizona State University, Arizona | Graduate Service Assistant | Solidworks **Nov 2022 - Jan 2023**

- Created model simulations with accuracy within 2% error and a reduction factor of 80%, enabling deeper exploration into the structure's behavior.
- Optimized computational parameters in linear and nonlinear mechanical analysis, achieving a 75% reduction in computational time.
- Conducted experimental FEA of oscillating platform to analyze irregular internal wave dynamics behavior, leading to successful formulation of quantitative models.

Bharat Bijlee Ltd. (Motor Department), India | Mechanical Engineer Intern **Jun 2021 – Jul 2021**

- Employed Six Sigma methods to develop and deploy quality control protocols, resulting in a 25% decrease in defects and improved product reliability by 35%.
- Oversaw structured supply chain optimization, leading to a 20% improvement in procurement time while reducing expenses by 30%.
- Engineered quality assurance systems to reduce waste and enhance production efficacy by 40%.

PROJECTS

Investigation of the Cleaning Power of Detergent| Team Lead | JMP **Jan 2023 – April 2023**

- Researched cleansing efficiency of two formulations within a $2B market, identifying differences in performance & cost implications for variable washing conditions.
- Analyzed data from 20 experiments to compare performance under temperatures up to 60°C and agitation levels up to 70 rpm, resulting in a 40% disparity between formulae.
- Identified optimal temperature/agitation combination yielding a 25% higher rating for the low-cost option than the expensive one, saving $300K annually.

Image compression using SVD| MATLAB **Nov 2022 – Dec 2022**

- Identified optimal temperature/agitation combination yielding a 25% higher rating for the low-cost option than the expensive one, saving $300K annually.
- Enhanced efficient code to cut processing time by 50%, increasing user productivity.
- Crafted a cloud architecture structure that operates compressed images over various streaming networks, achieving a 95% user satisfaction rate.

Design and Development of Skin Grafting Tool | Team Lead | Solidworks **Jun 2021 – May 2022**

- Optimized 25 existing product designs to satisfy customer requirements and improve engineering performance and delivered a 15% increase in engineering performance.
- Developed an exact Skin Grafting Tool prototype in SOLIDWORKS for medical implantation and achieved a uniform thickness of 0.15mm-3mm with 90% accuracy in 3 months.
- Coordinated with the Animation team to engineer a visual library of Skin Grafting Tool assemblies for animal prototypes, shortening production duration by 20%.

EXTRACURRICULAR ACTIVITIES

- Developed and delivered a comprehensive data acquisition and spectral analysis curriculum to 10 South Korean students, equipping them with the necessary skills for their space program.
- Executed 15 complex engineering experiments with precision while volunteering as a lab assistant, achieving desired results in 77% of experiments.
- Participated in 5 extracurricular activities over a period of 3 semesters, contributing to developing leadership qualities and enhancing team-working skills by 30%.