Aditya Mocharla

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EDUCATION

San Jose State University San Jose, California
M.S., Industrial and Systems Engineering Aug 2022 - May 2024
Coursework: System Simulation, Operations Planning and Control, Advanced Operations Research, Quality Assurance and Reliability, Logistics , Analytics for System Engineering, Design of Experiments, Lean Six Sigma, Continuous Improvement

Sreenidhi Institute of Science and Technology Hyderabad, India
B. Tech., Mechanical Engineering July 2017 - Sept 2021
Coursework: Engineering Mechanics, Thermodynamics, Dynamics Kinematics of Machinery, Manufacturing Processes, Operations Research, CAD/CAM, Mechatronics

WORK EXPERIENCE

Internship | Mahindra Consulting Engineers, India – Part Time Jan 2022 - Jul 2022
- Collaborated in consulting-based role primarily focusing on green concepts in
- Researched, evaluated and reported on concepts, case studies related to industrial ecology, sustainable engineering and circular economy

Internship | United Industries Automotive Plastics Private Ltd., Anantapur, India - Full Time Jan 2022 - Apr 2022
- Engaged internship at a facility manufacturing various plastic-based automobile components
- Acquired ground level training, knowledge in Production, Planning, Quality Control, Continuous Improvement, Supply Chain
- Reduced workforce, increased throughput by 6%, 11% by optimizing machine layout, process modifications leading to overall efficiency

TECHNICAL SKILLS

Microsoft Office Suite, G Suite, AutoCAD, PTC Creo, SAP ERP, ProModel, Tableau, PowerBI, Excel, Adobe, Solidworks, R, R Studio, SPSS, Minitab, JMP, Value Stream Mapping, Project Management

ACADEMIC PROJECTS

Autonomous Emergency Braking System Jan 2021 - July 2021
- Designed, fabricated and tested a prototype to satisfy project and real-world conditions
- Led process of designing and analyzing model using software and test for various parameters which affect working
- Components utilized were Ultrasonic sensors, DC motor, Arduino board, detailed electronic circuit layout drawn for effective understanding
- Compiled project done into a standard report and obtained 'Outstanding' grade

Experimental Studies on Distortions Produced by TIG Welding Sep 2019 – Dec 2019
- Welded two equal plates using Tungsten Inert Gas (TIG) Welding
- Measured distortion at equal lengths on either plate using a Dial gauge
- Plotted a graph to represent numerical values for both mild steel and aluminum plates
- Analyzed, calculated variations in readings to reflect differences between two material plates
- Documented and reported findings, initiated and managed a team of 3 to complete project

CERTIFICATIONS

- AutoCAD Certified User - AutoCAD
- Robotics - NPTEL IIT Kharagpur
- Supply Chain Analytics - Coursera
- Industrial IoT on Google Cloud Platform – Coursera | Managing Project Risks and Changes - Coursera

CORE SKILLS

- Conceptualized major project of Bachelors using AutoCAD, Solidworks
- Implemented the principles of 5S and Kaizen at United Industries as part of efficiency, process development
- Managed Braking department team of 6 members for SAE vehicle in BAJA and Efficycle competitions
- Implemented a manufacturing facility in ProModel simulation, experimented using various factors for maximum throughput