Avinash Pinnamaneni

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Nationality
Indian

Website
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Skills
Systems design, Plant Automation, Logistics Planning, CAD modelling, Data Analytics, Web design

Programming Languages:
C, C++, Python, SQL,HTML,CSS, JS

Tools:
Technomatix Plant Simulation
Solid Works
MS-Office
MS Project
Power BI
Arduino IDE
Inkscape
Atom
Jupyter
Git
CADWorx Plant Pro

Education

Masters Systems Engineering for Manufacturing   Oct 2021 -Ongoing
Otto-von-Guericke Universität   Grade: 2.2
Magdeburg, Germany
- Systems Engineering for Manufacturing.
- Logistics planning and Optimization.
- Material Handling Systems.
- Factory Automation and Industrial Robotics.

Sep 2013 - Apr 2017
Bachelors Mechanical Engineering
Sreenidhi Institute of Science & Technology   Grade: 1.9
Hyderabad, India
- Project management.
- Operations research.
- Machine design.

Work Experience

Production and Automation Intern
Vivere Gmbh (FMCG Manufacturing)   Oct2022 -Mar 2023
Hamburg, Germany   (6 Months)
- Enhance **operational efficiency** in production and logistics through coordinated troubleshooting and optimization.
- Implement **Lean manufacturing** techniques for waste reduction in logistics and production.
- Integrate **automation** using microcontrollers for efficient machine control and data retrieval.
- Provide application support and technical management for logistics projects, contributing to **process improvement**.

Tools used: Arduino IDE, Technomatix Plant Simulation, Excel,Power BI, Draw.io,Atom, Jupyter

Designs and Production Manager   Jun 2017 - Oct 2021
B&G Engineering Industries (Pharma equipment mfg.)   (4 years 4 Months)
Hyderabad, India
- Lead the **design team** for New Product Development of Pharmaceutical equipment and Chemical processing plants.
- Manage **client requirements** for configuring and supplying equipment for processing plants.
- Demonstrate end-to-end **project management** by designing and integrating equipment in chemical plants and processes based on client requirements gathered through meetings.
- **Coordinate departments** for technical selections, supply scope, and conducted customer meetings.
- Introduce and troubleshoot **new manufacturing technologies** through the adoption of off-shelf components and automation.

Tools used: Solid Works, MS Office, Power BI, MS Project, MS Visio, CADWorx Plant Pro

Projects

Development and commissioning of Cannabis extraction unit (1.5 Million CAD) @ B&G Engineering Industries

- **Process and equipment design** for a "Cannabidiol Extraction Plant" with Quadron Cannatech, CAN.
- Automation of the processing plant using Schneider PLC.
- Plant Testing and Documentation of system parameters for potential improvements.

Tools used: MS Office, MS Visio, MS Project, Draw.io, Inkscape

Development and Commissioning of Effluent Treatment Plants(ETP) and Solvent Recovery Systems(SRS) @ B&G Engineering Industries

- Design and commissioning planning of equipment on customer site.
- Preparation of Automation and safety interlocks for the process.
- Co-ordination between production and client for design inprovements.
- Development of special equipment for custom process requirements.

Tools used: Solidworks, CADWorx Plant Pro, MS Office, MS Visio, MS Project, Draw.io, Inkscape

Automation of low volume Bottle Filling Production line@ Vivere Gmbh

- Analyze, designe, implemente, and validate automation improvements for the bottle filling process.

Tools used: Arduino IDE, Draw.io

Conception of weight sensible transmission system@ Bachelors

- Concept for optimizing engine operation and drive line dynamics through onboard sensor-based assessment for enhanced vehicle efficiency and performance.

Design and Manufacturing of All Terrain vehicle @ Bachelors

- Prototyping an All Terrain Vehicle for the nationwide **Mini-BAJA** competition held by **SAE INDIA** at the student level, I took the lead in developing various vehicle subsystems, documenting DFMEA, cost analysis, and business reports, specifically focusing on the transmission sub-system.

Tools used: Solid Works, CATIA V5, Ansys-Workbench, MS Project.

Design and fabrication of a Go-kart @ Bachelors

- As team **captain**, I led the design and modeling of a single-seating racing kart for a student-level competition. We successfully developed a balanced design that showcased both performance and innovation.

Tools used: Solid Works, CATIA V5, Ansys-Workbench.