Avinash Pinnamaneni

001, Walther Rathenau Straße-43
39106, Magdeburg
Germany

+49 176 67567426
avinash.pinnamaneni@st.ovgu.de

Nationality
Indian

Nationality
https://prismatic-licorice-c75787.netlify.app

LinkedIn
https://www.linkedin.com/in/avinash-pinnamaneni-ba475b79/

Skills
Web design, Data Analytics, CAD modelling, System design, Plant Automation, Simulation

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

Tools:
Atom
Jupyter
Git
Bootstrap
Inkscape
MS-Office (PPT,Excel and Word)
Technomatix Plant Simulation
MS Project
Power BI
Arduino IDE
Solid Works
Autodesk Inventor

Education

Masters Systems Engineering for Manufacturing Oct 2021 -Sep2023
Otto-von-Guericke Universität Grade: 2.2
Magdeburg, Germany

- Systems Engineering for Manufacturing.
- Project Life-cycle management
- Factory Automation and Industrial Robotics.

Bachelors Mechanical Engineering Sep 2013 - Apr 2017
Sreenidhi Institute of Science & Technology Grade: 1.9
Hyderabad, India

- CAD Modelling and Simulation.
- Operations research
- Machine design

Work Experience

Production and Automation Intern
Vivere Gmbh Oct2022 -Mar 2023
Hamburg, Germany

- Process Planning, Optimization and Automation of Control Systems
- Using **UML diagrams** for automation implementation, system analysis, and validating automation levels.
- Implementation of **Lean manufacturing** techniques through Value Stream Mapping and Monitoring Key Performance Indicators
- Integration of Industry 4.0 technologies through **IoT**.

Tools used: **Arduino IDE, Plant Simulation, Excel, Draw.io,Atom, Jupyter**

Product Development Head Jun 2017 - Oct 2021
B&G Engineering Industries,
Hyderabad, India

- **Project management** and execution of multiple processing industry projects.
- **Optimization** through implementation of Lean Manufacturing techniques
- Implementation of **JIT(Just In Time)** for inventory management resulting in reduced carrying costs.
- Preparation of **dashboards** for evaluation of production KPIs.
- **Automation** of multiple manufacturing processes resulting in increased throughput to 1.5 times using reduced resources.

Tools used: **MS Project, Visio, Excel, Power BI, Solid Works, CADWorx Plant**

Languages

English	C1 level
German	A1 level
Telugu	Native
Hindi	Fluent

Strengths

Flexible
Teamworker
Problem solver

Hobbies

Farming
Home improvement
Pet grooming
Sketching
Listening to Music

Projects

Development of Cannabis extraction unit (1 Million CAD) @ B&G Engineering Industries

- **Process and equipment design** for a "Cannabidiol Extraction Plant" with Quadron Cannatech, CA.
- Automation of the processing plant using Schneider PLC.
- Documentation, **system designs**, and automation logic models to facilitate knowledge transfer and cross-functional collaboration.

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

Automation of Manual filling Machine @ Vivere Gmbh

- Analyzed, designed, implemented, and validated automation improvements for the manual filling machine process.

Tools used: **Arduino IDE, Draw.io**

Development of Algorithm for weight sensible transmission @ Bachelors

- 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

- Prototyped an All Terrain Vehicle for the student-level nationwide Mini-BAJA competition conducted by **SAE INDIA,** while developing multiple vehicle subsystems, documenting **DFMEA, cost, and business reports**.

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

Design and fabrication of a Go-kart @ Bachelors

- Designed and modeled a student-level single-seating racing kart for a competition, leading the transmission team.

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