

KARANAM VENKATA SREERAM

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Summary

Organized and motivated professional with a strong background in Control and Automation, Electrical engineering. Proven ability to drive innovation and execute control system projects effectively within dynamic teams. Expertise in electrical instruments, sensors, and mathematical modelling of dynamic systems ensures reliable and robust solutions. Committed to contributing to next-generation technologies.

Skills

- Control Systems
- Systems Integration
- Instrumentation
- Process Optimization
- Communication Protocols
- Machine Learning
- System Diagnostics

Experience

Varian – A Siemens Healthineers Company

Field Service Engineer

10/2024 – Current

- Supported integration and functioning of interconnected components in a highly precise multimodality Linear accelerator machines such as Truebeam, Halcyon, C-series machine by Varian installed at hospitals.
- Diagnosed and resolved issues with electrical and electronic components such as PCBs, transistors, diodes, and power supplies, enhancing system reliability.
- Resolved issues regarding communication between controllers and software by utilizing my understanding on MSSB, HSSB and CAN Bus communication protocols.
- Monitored and analysed various sensor data (Thermostats, Pressure Sensors, Encoders) to maintain system performance, thus ensuring stable beam delivery.

Best Engineering Aids & Consultancies Pvt Ltd

Application Engineer

05/2024 – 10/2024

- Provided Technical support for CST Studio software user, enabling efficient resolution of complex challenges.
- Presented CST Studio Suite software capabilities to address electromagnetic challenges in a product lifecycle at diverse manufacturing industries.
- Promoted 3D Experience platform from Dassault Systems, streamlining design processes for diverse projects.

Academic Projects

- Developed an in-depth understanding on advanced control systems by working on the Turtlebot.
- Gained foundational knowledge of ML algorithms in process automation by working on Fault identification in a supermarket refrigeration system.
- Designed a mathematical model for a drone operating in highly dynamic conditions.

Education

Masters in Control and Automation | Aalborg University | Denmark – 07/22

GPA: 9.3

Masters Thesis - Machine Learning and UKF-based Indoor Localization using Ultra Wide Band (UWB) Sensors

- Accurate positioning of Robot using Ultra Wide Band Sensors
- Classification of Line of Sight and non-Line of Sight conditions for DNN and SVM
- Kalman Filtering to improve localization in case of NLoS conditions

Bachelors in Electrical Engineering | IITRAM | India – 06/20

GPA: 8.08

Undergraduate Thesis – Design of Flight controller for Drone using Sliding Mode Control

- Mathematical Modelling of Drone
- Design of flight controller on PCB
- First Order Sliding mode controller

Portfolios, Profiles

- <http://linkedin.com/k-v-sreeram>
- Projects – Please do refer the website <https://www.aboutkvsreeram.com>

Languages

- English, Fluent
- Danish, Beginner
- Hindi, Fluent
- Telugu, Native