

# BONNY BABU

Robotics Engineer with strong expertise in ROS and Python. Experienced in integrating ABB Yumi, Gofa, and Omron TM5 robots. Skilled in RViz, RobotStudio, and RoboDK with a focus on automation, efficiency, and performance.

## Work Experience

### Robotics Engineer, Sinergia Media Labs

May 2021 - Present

- Programmed ABB Yumi, Gofa, and Omron TM5 robots for three assembly cells in SmartDose Flex Automation.
- Developed modular PLC function blocks and integrated EtherNet/IP for seamless robot-cell communication.
- Assisted in PLC-vision system communication using TCP sockets for real-time object detection and validation.
- Optimized robotic motion, reducing cycle time and improving efficiency in automated assembly processes.

### MEP Design Engineer (Electrical), Path BEE Engineers and Contractors

January 2020 - April 2021

- Designed and maintained electrical single-line diagrams (SLDs) and layouts using AutoCAD software.
- Conducted site supervision ensuring design implementation and compliance with safety regulations.
- Managed procurement activities and supervised operations for government projects.
- Performed load calculations and equipment selection to optimize electrical system performance.

## Educational Background

### Bachelor of Technology [EEE]

APJ Abdul Kalam Technological University

College of Engineering, Aranmula, Graduation Year: 2020

### Diploma of Education [MEP]

STED Council

MTTC International LLC, Graduation Year: 2019

## Contact

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## Robotics System & Automation

- Robotic Manipulators
- ABB Yumi & Gofa
- TM5
- PLC & HMI
- Robotic Manipulators

## Simulation & Design

- Rviz & Gazebo
- RobotStudio
- RoboDK
- MoveIt
- AutoCAD

## Programming & Development

- Python
- ROS 1 & 2
- PLC Programming

- ABB RAPID Programming
- TM Flow Programming

### **Embedded Systems & Hardware**

- Raspberry PI
- Arduino
- Nvidia Jetson
- Motor Control
- Sensor Integration