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💼 PROFESSIONAL EXPERIENCE

Studentische Hilfskraft (Oct 2023 - Mar 2024)
Institut für Automatisierungstechnik und Softwaresysteme (Fraunhofer IPA), Stuttgart, DE

- Test algorithms on industrial robots.
- Optimized sensor parameters (IMU, laser scanners, indoor GPS).
- Developed ROS nodes and Python scripts for robot control.

Assistant Electrical Engineer (Mar 2020 - May 2022)
Confidence Power Holdings Limited, Bangladesh

- Troubleshooting and fault clearance in auxiliary systems.
- Improved fault detection by 25% through numerical computation.
- Visualization of fuel and water consumption data through dashboards, charts, and diagrams.

Internship – Automotive Radar Technology Development (Oct 2019 - Feb 2020)
ACI Motors, Bangladesh

- Integration of radar systems for advanced driver assistance systems (ADAS).
- Supported system validation through measurement campaigns (ROS framework).
- Developed Python tools to analyze raw ADC data from radars, reducing process time by 40%.
- Reduced manual testing hours by 30% through Python automation.

🎓 EDUCATION

Master of Science in Electrical Engineering (Oct 2022 - Present)
University of Stuttgart, Germany

- Focus: Automotive EE Systems, Sensors, Embedded Systems

Bachelor of Science in Electrical and Electronic Engineering (Aug 2015 - Aug 2019)
North South University, Bangladesh

- Focus: Control Engineering, Signal & Systems, System Validation, Power Electronics

🛠️ TECHNICAL PROJECTS

1.Self-Balancing Robot (2019)

- Practical implementation using IMU and radar sensors with real-time data processing.
- Implemented PID control logic in Python (NumPy) for real-time stabilization.
- Processed IMU sensor data with Python signal filtering.

2.Multi-Robot Security System with UAVs (2018)

- Object tracking using networked UAVs and TurtleBots.
- Synchronized sensor data via ROS (relevant for connected services).
- Visualized 3D orientation data using Plotly

🧠 SKILLS

- **Programming Languages:** Python, C++, C, SQL, CAPL, MATLAB/Simulink, Numpy
- **Measurement Tools & Technologies:** ROS, CANoe, CANalyzer, IMU characterization, Sensor calibration
- **Validation & Automation:** Data Analysis, CANBUS, LIN, Test Automation, Sensor Configuration
- **Model-Based Development:** MATLAB/Simulink
- **Office Tools:** MS Office (Excel, PowerPoint, Word)
- **Controllers:** Arduino, Microcontrollers, Signal processing

🌍 LANGUAGES

- **English:** C1 (Fluent)
- **German:** B1 (Intermediate) – ongoing
- **Bengali:** C2 (Native)

📜 CERTIFICATIONS

- **Python for Everybody** – *Coursera (Mar 2020)*
- **Programming in MATLAB** – *Coursera (Jun 2020)*
- **SQL Basics** – *MIT OpenCourseWare (Sep 2020)*
- **Robotics for Future –** *North South University (May 2017)*
- **Introduction to Renewable Energy** – *International Energy Forum (Jan 2021)*