TAHMIDUR RAHMAN TABIN

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Education

Noakhali Science and Technology University   Jan. 2017 – Mar. 2022
B.Sc.(Engg.) in Electrical and Electronic Engineering   *Noakhali, Bangladesh*

Experience

CredoSense Inc. (Ltd).   Aug 2022 – Present
Embedded Hardware Engineer   *Dhaka*

- Designed and developed firmware for Data Logger using C/C++ programming language, resulting in 30% decrease in power consumption.
- Implemented device drivers for various peripherals such as UART, CAN, SDI-12, RS-485, SPI, and I2C to enable communication between microcontrollers and external devices.
- Conducted board bring-up activities, including hardware testing, debugging, and validation.
- Collaborated with cross-functional teams, including hardware engineers, software engineers, and quality assurance, to ensure timely delivery of embedded systems.

Projects

8 Channel Data Logger   January 2023

- Robust and fault-tolerant CAN-BUS communication for long-range wired communication.
- Battery-backed clock ensures accurate time keeping while data logger is disconnected from power.
- Allows fast (1 s) measurement, logging, and cloud upload
- Supports a wide range of sensors, such as temperature, humidity, pressure, light, sound, acceleration, and GPS..

Synchronized System Architecture Design and Develop   November 2022

- Multiple device in different location are connected to each other using cloud server.
- Resource are collected from one node and used by all other node.
- One node can send command to the other nodes.

Comparative Study on Feature Selection for Heart Disease Prediction   November 2021

- Different feature selection technique such as filter methods, wrapper methods, and embedded methods, are used for heart diseases prediction.
- Compared the performance of feature selection techniques with different classification algorithms, such as logistic regression, decision trees, support vector machines, and deep learning algorithms, in the context of heart disease prediction.

Technical Skills

Programming: Python, C, C++, FreeRTOS, Django, MySQL, Git
Instrumentation: Microcontroller(AVR, ESP32, ARM, PIC), Sensor Interfacing, PCB Design
Communication Protocol: I2C, SPI, CAN, SDI-12, RS-485, MODBUS
Machine Learning: Tensorflow, Numpy, Pandas, Scikit-learn, Matplotlib.S

Leadership / Extracurricular

- Co-Chief Organizer in 1st NSTUSC Science Fiesta 2020. (March 2020)
- General Secretary of NSTU Science Club. (April 2020-April,2021)
- Volunteer in Noakhali Science and Technology University Admission Test. (October 2017)

Reference

- **Dr. Mohd Abdur Rashid**.
  Professor, EEE, NSTU
  marashid.eee@nstu.edu.bd

- **Subrata Bhowmik**.
  Assistant Professor, EEE, NSTU
  psbhowmik12.eee@nstu.edu.bd