SYED SALMAN RAHMAN

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EDUCATION

MS, *Electrical and Electronics Engineering,* *New York University, New York, New York* **Sep 2021-Dec 2022**

- Thesis: Monitoring Rheumatoid Arthritis using Thermographic Analysis

Relevant courses: Real-time Embedded Systems, Internet Architecture and Protocols, Probability and Stochastic Processes,Interactive Medical Robotics, Computer System Architecture.

BEng, *Electrical-Mechatronics,* *Universiti Teknologi Malaysia, Johor, Malaysia* **Sep 2016-June 2020**

- Thesis: Microfluidic Based Dielectrophoretic Cell Sorter for Cancer Detection
- Lab Experience: Instrumentation and Sensors, Embedded Systems, Digital Logic, Robotics.

TECHNICAL SKILLS

- Languages: C/C++, Python, MATLAB, Assembly (RISC-V), Verilog.
- Design, Modeling, Simulation: Simulink, COMSOL, NI LabView, Proteus, Modelsim, Tinkercad/SolidWorks.
- Other tools and frameworks: mbed, STMCubeIDE, UNICO-GUI, SerialPlot, git, AWS IoT.

EXPERIENCE

Application Engineer II, STMicroelectronics, Schaumburg, IL. **Jan 2023-Present**

- Provide technical support of MEMS sensors and Infrared occupancy sensing solutions
- Define, Develop, and present technical demos and proof of concept (PoC) to aid in promotional activities
- Develop and document lab activities such as device characterization, build functional specification per application requirement, design documents, and test plans/reports.

Field Application Engineer Intern, STMicroelectronics, Schaumburg, IL. **June 2022-Dec 2022**

- Contributed to characterizing TMOS occupancy sensing technology
- Developed hardware and software of test equipment to enable automated testing routines for MEMS sensors
- Aided in development of standardized testing procedure to fulfill customer application requirements
- Aid in development of sensor data analysis / visualization
- Develop routine to assist testing of sensor devices utilizing advanced lab equipment

Course Assistant, *CS-2204, Dept. of ECE, Tandon School of Engineering, New York University* **Sep 2021-Jan 2021**

- Conducted Lab classes for Digital Logic and State Machine Design focusing on the synthesis of components using Verilog and demonstration on hardware using NEXYS 4 DDR FPGA board from Xilinx.
- Assisted students with projects, solve critical problems and graded assignments and quizzes

Research and Development Intern, *INNATES PLT, Johor Bahru, Malaysia* **Jun 2019-Sep 2019**

- Designing and implementation of Hardware and Software integration of Hall-effect sensor, ADC, MCU, communication gateway with backend server and database for the project "Photovoltaic Energy Monitoring System (PVEMS)"

PUBLICATIONS

- Syed Salman Rahman, Mohd. Ridzuan, "Microfluidic Based Dielectrophoresis Cell Sorter for real-time cancer detection", 3rd International Conference On Green Engineering & Technology 2021 (IConGETech2021)
- Lau K.X., Leow P.L., Jamian J.J., Arsat, R., Abdeltawab A.A.A., Rahman S.S.,Khalid N.H., A.Mohamed A. "Temperature Distribution Study for Malaysia Broiler House", 2nd International Conference on Smart Sensors and Application, ICSSA, 2018
- Lau K.X., Leow P.L., Jamian J.J., Arsat, R., Abdeltawab A.A.A., Rahman S.S., Khalid N.H., A.Mohamed A. "Harvesting electrical energy from rooftop ventilator". International Journal of Integrated Engineering., Vol.10, No.4, pp. 68-72, 2018Studied and analyzed temperature distribution of different light/heat sources for optimum chick.

HONORS AND AWARDS

- Merit-based scholarship, Tandon School of Engineering, NYU (2021)
- Winner, Tandon Made Challenge. Track: AI for Good (2021)
- Chosen as a Tandon Summer Scholar among 1000 participants (2021)
- Dean's List Award, School of Electrical Engineering, Universiti Teknologi Malaysia (2018-2020)
- 2nd Runners up, Grand Challenges Competition, Malaysia (2019)
- Champion, Project Showcasing (Mechanical), 7th National School Science Fair, Bangladesh (2015)
- Daily Star Awards for outstanding results in O &A levels (2014)