ARAS SIDDIQUI

Automation Engineer

siddia18@mcmaster.ca
(647) 832-2860
linkedin.com/in/siddiqui-aras
Siddia.github.io

Skills & Tools

- Proficient in programming PLC (Allen Bradley) using **RSlogix 5000.** Additional tools: **DeviceNet**, **ControlNet** & **Ethernet**.
- Proficient in MATLAB(**Simulink**), **VB.net**, **C++, Java**, **Assembly** and **LABVIEW**.
- Designed 3D designs using **Fusion 360, AutoCAD, Solid edge and Solid works.**
- Rapid prototyping experience using Microcontrollers (**Arduino**, **PIC 16F690**).
- Experienced in PCB design, milling and etching. PCB design using **EagleCAD.**
- Trained in machine shop tools like: **Lathe**, **Bandsaw**, **Drill press** and **Vertical Saw**.
- Proficient with MS office such as: Word, Excel, Power point, outlook and **project**.

Education

Bachelor of Technology - Automation | *McMaster University, Hamilton, ON*

September 2016- December 2020

- In an Integrated program by McMaster University and Mohawk Collage.

Extra-Curricular

FIRST Robotics Team Captain (Mechanical & Electrical lead)

Build robot in six weeks and competed with 200 teams across Ontario. Oversaw fabrication of chassis and the electrical wiring on robot.

Socials Director

Plan and lead events catered to a community of 1000+.Successfully increased group membership by 35%. Lead a team of 10 sub-directors to complete task..

Experience

Co-Founder, UX Designer | *Shuttlr , Hamilton, ON*

March 2017- September 2017

- Co-founded transportation startup to run shuttle service in areas that are underserved by public transport in Hamilton.
- Won 1st place in HackTheCity Case competition.
- Secured partnership with Forge (McMaster Startup incubator).
- Used Agile Project Management to manage team of 3.
- Designed UX/UI for mobile app in Adobe experience design.
- Reached out to over **100** people to determine target market.

B.Tech. Representative | *McMaster Engineering Society, Hamilton, ON.*

February 2018 – Present

- Increased community engagement by **60%** this year. Ran 5 events with **150+** in attendance. Including Alumni Night
- Secured funding of **$9,000** for B.Tech department designed for a composite 3D printer.
- Facilitated communication between Alumni, students and department. Informed all on current events and opportunities.

Projects

Self-Balancing Robot

- Created using 6DOF accelerometer and Arduino UNO. Robot can maintain its vertical position, when tipped over its axis.

Mechanical Oscilloscope

- Using a function generator, speaker and laser pointer, a sine wave can be observed from the vibrations created by speaker.

Automated Car Parking System (SCADA Project)

- An automated car parking solution that reduces parking space. System uses arduino & displays results on HMI(LABVIEW).

PWM and PID control using PLC

- Controlled analog output using PWM and PID and integrated system with an HMI.