ARAS SIDDIQUI

siddia18@mcmaster.ca

(647) 832-2860

linkedin.com/in/siddiqui-aras



Automation Engineer



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 mechanical designs using Autodesk 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 a Joint program by McMaster University and Mohawk Collage.



Extra-Curricular



Built robot in six weeks and competed in Oshawa regional. Oversaw fabricating robot chassis and the electrical wiring on robot.

Mentor for YMCA NYLD Program

Mentor for YMCA's NYLD (Newcomer Youth Leadership and Development) program. Organized and led youth-based event.



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.