M Swaleh Owais

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SUMMARY   I am an avid maker and roboticist. I love designing, building, and redesigning contraptions. In particular, I am passionate about using my technical and creative abilities to help others.

SKILLS & Certifications

- Detailed oriented machinist who is highly capable with lathe and mill
- Comprehensive knowledge of CAD software, especially Autodesk Inventor
- Well versed with 3D Printing and Rapid Prototyping
- Fluent in Python, Java, Ruby. Received Level 4 in AP CS A
- Vast experience with Arduino microcontrollers and Raspberry Pi computers
- Children's and Adult's Emergency First Aid/CPR Level C/AED
- Passport to Safety – Advanced Leaders Challenge – Certification

WORK EXPERIENCE

Camp Instructor for Youth Robotics Program

Boswin Robotics, Mississauga   2014-Current

- Designed an engaging camp curriculum that revolves around STEM activities and teamwork exercises.Successfully taught middle school students complex concepts, such as renewable energy, simple machines, and key learning skills.

Vice President and Team Captain at Warrior Robotix Club

Warrior Robotix Club, Mississauga   2012-Current

- Successfully led the Warrior Robotix SkillsCanada Team in building multiple award winning robots, while also serving as Vice President of the club. http://4659warriors.com/

CAD Technician Intern

Studica LTD, Mississauga   May-August 2015

- Produced step by step assembly diagrams for company robotics kits. Effectively used Autodesk Inventor to make explosion drawings of said assemblies. Designed and 3D printed particular components (hubs, motor mounts, etc.) for robotics kits. Demoed company products with robotics projects. http://www.instructables.com/id/3D-POV-Clock-from-a-HDD/

VOLUNTEER WORK

Robotics Mentor
Kenollie Public School, Mississauga
- Teaching robotics team members Lego Mindstorms EV3 Programming.

EDUCATION

McMaster University   Graduating Class of 2021
- Bachelor of Mechatronics Engineering
- Five year CO-OP Program

Port Credit Secondary School   Completion June 2016
- High School Diploma
- SciTech Program Diploma
- Specialist High Skills Major Red Seal

AWARDS / HONORS
- Presenter at MakerExpo Kitchener   2016
- VEX Robotics Provincial Excellence Award   2016
- GYBO Hackathon Winner   2015
- Free The Children BreakPoverty Hackathon Finalist   2015
- VEX Robotics World Championships Division Finalist   2015, 2016
- SkillsOntario Robotics Competition Bronze Medalist 2014