Huzaifa Khan
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EDUCATION

University of Waterloo — Waterloo, Canada
BASc in Mechanical Engineering — *April 2020*
- **Capstone:** Autonomous EV Charging Robot for Robo-Taxis

INTERESTS

Autonomous Vehicles, Robotics, Machine Learning

WORK EXPERIENCE

Voyage Labs — Waterloo, Canada
Robotics Engineering Intern — *Sep 2019 - Dec 2019*
- **Highlights:** Developed an automated electro-mechanical system for testing THC biosensors using a 3-axis robot.

Tesla — Palo Alto, USA
Mechanical Design Engineering Intern — *Jan 2019 - Apr 2019*
- **Highlights:** Designed sheet metal and structural components for an industrial energy storage system (Megapack). Optimized the structural integrity of designs through performing FEA.

Manufacturing Engineering Intern — *Sep 2018 - Dec 2018*
- **Highlights:** Designed and implemented equipment modifications in Energy Module process, yielding $1.5M in savings through scrap reduction.

Test Engineering Intern — *Jun 2018 - Sep 2018*
- **Highlights:** Collaborated with cross-functional teams to test and validate over 20 production changes for Model S/X powertrain. Analyzed large data sets using statistical methods to suggest improvements.

Toyota — Cambridge, Canada
Mechanical Engineering Intern — *Jan 2018 - Apr 2018*
- **Highlights:** Designed an end-effector for a part-transfer robot on the Corolla engine compartment welding line, successfully allowing multi-model capability.

AWARDS

ASME Northern Alberta Design Award 2020
General Motors Innovation Award 2020
Engineer of the Future Fund 2020
Hack for Health Competition Winner 2015
University of Waterloo President's Scholarship 2015

SKILLS

Languages: Python, C++, MATLAB, G-Code, LaTeX
Technologies: Arduino, LabVIEW, TensorFlow, SolidWorks, CATIA
Design: detailed assemblies, metal/plastic parts, materials, statics, DFM, GD&T

RELEVANT COURSES

Mechanical Design 2 (ME423); Advanced Dynamics and Vibrations (ME524); Fatigue and Fracture Analysis (ME526); Manufacturing of Mechanical Materials & Composites (ME596)