## Huzaifa H. Khan

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EDUCATION	<ul> <li>University of Waterloo</li> <li>BASc in Mechanical Engineering</li> <li>Capstone: Autonomous EV Charging Robot for Robo-Ta</li> </ul>	Waterloo, Canada June 2020 axis
INTERESTS	Autonomous Vehicles, Robotics, Machine Learning	
WORK EXPERIENCE		
	<ul> <li>Tesla</li> <li>Intern, Energy Products Design <ul> <li>Highlights: Designed steel enclosures for high-pressure test function of deflagration vents in Megapack. Optimized struct FEA simulations in CATIA V6.</li> </ul> </li> </ul>	
	<ul> <li>Tesla</li> <li>Intern, Energy Products Manufacturing</li> <li>Highlights: Root-caused the primary source of scrap rate process by studying manufacturing line and quality log. Impaction to reduce OpEx costs by \$1.5M.</li> </ul>	
	<ul> <li>Tesla</li> <li>Intern, Model S/X Powertrain NPI</li> <li>Highlights: Collaborated with cross-functional teams to tea 20 production changes for Model S/X powertrain. Analy using statistical methods to suggest improvements.</li> </ul>	
		against competing
	<ul> <li>Department of National Defence</li> <li>Intern, Submarine Weapon Systems</li> <li>Highlights: Investigated the root cause of failure for de Indicator Units (SIUs), Proposed design modifications to min SIUs by 70% and yield \$35,000 in savings.</li> </ul>	0
	<ul> <li>University of Waterloo Formula Hybrid SAE</li> <li>Team Member, Powertrain Design</li> <li>Highlights: Worked in a small team to design and prototy</li> </ul>	Waterloo, Canada Sep 2015 - Jul 2016 ype a motor cooling

**Highlights:** Worked in a small team to design and prototype a motor cooling system to enhance vehicle performance. Developed a data logger using an Arduino & thermocouples to monitor ATF temperature during wet rotor testing.

AWARDS	ASME Northern Alberta Design Award General Motors Innovation Award Engineer of the Future Fund Hack for Health Competition Winner University of Waterloo President's Scholarship	2020 2020 2020 2015 2015
SKILLS	Mechanical Design: CATIA V6, Solidworks, manufacturability, fixtures, GD&T Engineering Tools: FEA in CATIA & Solidworks, CES EduPack, Matlab, LabView Prototyping: 3D printing, laser cutting, CNC machining, Arduino, soldering Languages: Python, C++, G-Code, LATEX Theory: Mechanics, materials, fatigue, plastics & composites Self-Direction: Strong initiative to learn, solve problems and ask questions	
RELEVANT COURSES	Mechanical Design 2 (ME423); Advanced Dynamics and Vibrations (ME524); I and Fracture Analysis (ME526); Manufacturing of Mechanical Materials & Ce ites (ME596)	0