

# Huzaifa Khan

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## EDUCATION

<b>Oregon State University</b> <i>BS in Computer Science</i>	Corvallis, OR <i>Expected Grad: 2026</i>
<b>University of Waterloo</b> <i>BASc in Mechanical Engineering</i>	Waterloo, ON <i>Grad: 2020</i>

## EXPERIENCE

<b>Lucid Motors</b> <i>Sr. Design Engineer, Craftsmanship</i>	Mar. 2024 – Present Newark, CA
<ul style="list-style-type: none"><li>Designed key exterior interfaces with class-leading fit and finish targets for the new Lucid Mid-Size vehicle.</li><li>Led benchmarking studies to define gap, flush, and haptic specs on exterior trims. Led design reviews with cross-functional teams to ensure all Build Objectives were achievable.</li><li>Proposed alternative materials, surfaces, cutlines, and interfaces to improve perceived quality for A-surface.</li></ul>	
<b>Dräxlmaier</b> <i>Lead Design Engineer</i>	Oct. 2021 – Feb. 2024 Livermore, CA
<ul style="list-style-type: none"><li>Managed launch of new interior products from concept to high-volume production; performed CAD DFMA studies, led cross-functional design reviews, and attended onsite builds for successful design release.</li><li>Worked with Test and Reliability teams to design and validate all functional and non-functional requirements.</li><li>Root-caused fit and finish issues, implementing countermeasures through reworks and tooling design changes.</li></ul>	
<b>Tesla</b> <i>Mechanical Design Engineer</i>	Oct. 2020 – Jun. 2021 Fremont, CA
<ul style="list-style-type: none"><li>Successfully managed the launch of Model S interior parts during prototype phase through SOP release. Attended onsite builds and root-caused issues pertaining to assembly, haptics, gap, and flushness.</li><li>Identified and root-caused manufacturing issues for injection molded parts and developed cost-effective reworks.</li><li>Performed CAD studies, tolerance analysis, E-Cube builds and led offline trials for successful release of parts</li></ul>	
<b>Voyage Labs</b> <i>Mechatronics Engineer Intern</i>	Sep. 2019 – Dec. 2019 Waterloo, ON
<ul style="list-style-type: none"><li>Developed an automated system for testing THC sensors using a 3-axis liquid-handling robot. Created python scripts to execute test protocols and reduce cycle time by 66%.</li><li>Designed and fabricated prototypes of a mechanical test fixture and PCBA. Optimized using FEA in Solidworks.</li></ul>	
<b>Tesla</b> <i>Mechanical Engineer Intern</i>	May 2018 – May 2019 Fremont, CA
<ul style="list-style-type: none"><li>Root-caused the primary source of scrap rate in Battery Module process by analyzing data from manufacturing line and quality log. Implemented corrective actions to reduce OpEx costs by \$1.5MM.</li><li>Analyzed large data sets using statistical methods to provide feedback from manufacturing trials and help drive continuous improvement initiatives. Validated +20 production changes for Model S/X powertrain.</li><li>Developed a service tool to swap faulty energy modules in Megapack, under safety, packaging and cost constraints.</li></ul>	

## PROJECTS

<b>Blitz</b>   SolidWorks, 3D Printing, Machining, Arduino, Breadboarding and Soldering	Jan. 2019 – Apr. 2020
<ul style="list-style-type: none"><li>Developed an autonomous EV charging robotic arm as a solution for charging robo-taxis, for Capstone Project.</li><li>Responsible for developing the electrical design; sourcing motors, compatible drivers, and power supply, based on design requirements such as expected joint load, robot degrees of freedom, etc.</li><li>Awarded General Motors Innovation Award, ASME Northern Alberta Design Challenge Award, and University of Waterloo Engineer of the Future Fund.</li></ul>	

## TECHNICAL SKILLS

<b>Mechanical Design:</b> CATIA, SolidWorks, fixture design, DFMA, GD&T, BOM management
<b>Engineering Tools:</b> Finite element analysis, data analysis in Python and MATLAB, Git, PyCharm, VS Code, Jira
<b>Prototyping:</b> Arduino, bread-boarding, machining, 3D printing SLA and FDM parts, laser cutting, fixturing
<b>Theory:</b> Plastic Injection Molding, Mechanics, Materials, Fatigue and Fracture