

# Zach Kutschke

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<b>Education</b>	<b>Massachusetts Institute of Technology</b> <ul style="list-style-type: none"><li>• Candidate for B.S. in Mechanical Engineering, GPA 4.8/5.</li><li>• NEET Advanced Materials Machines thread.</li><li>• Coursework includes Thermal-Fluids Engineering, Dynamics and Controls, Mechanics and Materials, Design and Manufacturing, and Analog Electronics.</li></ul>	Cambridge, MA Jun 2021
	<b>ETH Zurich</b> <ul style="list-style-type: none"><li>• Exchange student in the Department of Mechanical and Process Engineering.</li><li>• Coursework includes Metal Additive Manufacturing, Quantum Mechanics, Risk Analysis, Energy Systems and Power Engineering, and Nonlinear Controls.</li></ul>	Zurich, CH Feb - May 2020
<b>Professional Experience</b>	<b>BD Medical - Advanced Diabetes Care</b> <i>Summer Intern, Research and Development</i> <ul style="list-style-type: none"><li>• Designed, built, and programmed automated testing equipment to improve the manufacturing efficiency of their new product line.</li><li>• Assisted in generating a new testing method and specification for pressure decay/leak rate of critical components of a new insulin delivery device.</li><li>• Designed and ran experiments to characterize materials and prove component designs.</li></ul>	Andover, MA Jun - Aug 2019
	<b>Musashi Auto Parts - Michigan</b> <i>Summer Intern, Engineering Department</i> <ul style="list-style-type: none"><li>• Designed and built computer controlled tool cart to aid in machine installation.</li><li>• Assembled machinery and production lines to expand production output.</li><li>• Collaborated to design custom holders for production line operators' gauges and measuring equipment.</li></ul>	Battle Creek, MI Jun - Aug 2018
	<b>Musashi Auto Parts - Michigan</b> <i>Summer Intern, Engineering Department</i> <ul style="list-style-type: none"><li>• Built testing apparatus and conducted experiments to determine acceptable leak rate of gear assemblies.</li><li>• Learned GTAW and GMAW processes, plasma cutters, mills, lathes, etc.</li><li>• Assisted in generating new specifications for production lines to catch faulty parts.</li></ul>	Battle Creek, MI Jul - Aug 2017
	<b>Rosler Metal Finishing USA, LLC</b> <i>Warehouse Associate</i> <ul style="list-style-type: none"><li>• Utilized SAP-ERP system to receive, locate, and control inventory.</li></ul>	Battle Creek, MI Jul - Aug 2016
	<b>MIT Solar Electric Vehicle Team</b> <i>Business Lead &amp; Mechanical Team</i> <ul style="list-style-type: none"><li>• Helped design, analyze, and manufacture portions of the mechanical system (brakes, suspension, etc).</li><li>• Wrote a quickstart guide for setting up and running static simulations in Solidworks.</li><li>• Acquired and maintained sponsors, funding, and support for the team.</li></ul>	Cambridge, MA 2018 - Present
<b>Skills &amp; Interests</b>	<b>Skills:</b> Inventor, Solidworks, Machining & Welding, Arduino, MatLab, Python, <b>Languages:</b> Conversational German. <b>Interests:</b> Photography, Weight Lifting, Making, Judo.	