

# Mohammad Mundiwala, Mechanical Engineer

47 Red Stone Drive, Simsbury, CT, (860) 999 - 1159, mohammad.mundiwala@uconn.edu

## PROFILE

An accomplished Mechanical Engineering student with academic achievements driven by a genuine love for learning. A high-energy team player looking for research opportunities in optimizing mechanical and energy systems.

## EDUCATION

Sep 2020 — May 2024	<b>Mechanical Engineering, University of Connecticut</b> Cumulative GPA: 3.994   Honors Program, Dean's List, Babbidge Scholar	Storrs
Aug 2024	<b>PhD, University of Connecticut</b> <ul style="list-style-type: none"><li>Will pursue PhD with REIL lab working on machine learning applications to engineering design and health monitoring.</li><li>Focus on rotating mechanical systems and Lithium-ion batteries</li></ul>	Storrs

## RESEARCH

Sep 2023 — Present	<b>Reliability Engineering and Informatics Laboratory</b> <ul style="list-style-type: none"><li>Conducts literature review and learns basic operating principles of lithium-ion batteries</li><li>Applies machine learning fundamental to develop a simple neural network from scratch using python</li><li>Implements explainable AI for bearing health monitoring under postdoc</li></ul>	Storrs
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## PROJECTS

Sep 2023 — Present	<b>Senior Design, Windham Research</b> <ul style="list-style-type: none"><li>Developing a novel probe and software that integrates CT scan and ultrasound data for dental surgery</li></ul>
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## EMPLOYMENT HISTORY

May 2023 — Aug 2023	<b>Automation Process Engineer Intern, Dyno Nobel</b> <ul style="list-style-type: none"><li>Increased production efficiency by designing, constructing, and implementing passive assembly adjustment device that has proved effective and economic.</li><li>Improved machine longevity by re-designing shaft system mechanics for Thumping Assembly using CAD Software</li><li>Achieved safety and standardization for automatic gel dispensing station by creating Controlled Documentation for streamlined use and maintenance.</li></ul>	Simsbury
Sep 2020 — Present	<b>Math and Physics Tutor, Self Employed</b> <ul style="list-style-type: none"><li>Enabled high school students to excel in Calculus, Physics, and Writing through tailored tutoring sessions, leading to improvements in their academic performance</li><li>Developed and implemented coursework and provided personalized online tutoring support garnering outstanding feedback and referrals from students</li></ul>	

TECHNICAL PROFILE	Matlab	Experienced	FEA with ANSYS	Skillful
	Microsoft Excel	Experienced	Python	Experienced
	Creo Elements Direct Modeling & Siemens NX	Experienced		

## EXTRA-CURRICULAR ACTIVITIES

Sep 2021 — Present	<b>Operations Coordinator , Camp Kesem</b> <ul style="list-style-type: none"><li>Successfully planned, coordinated and managed <b>two</b>, week-long overnight summer camp programs catering to children impacted by cancer in their families</li><li>Played an integral role in achieving fundraising objectives by working collaboratively with fellow leaders</li></ul>
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- Attained Eagle Scout rank by successful fundraising initiatives, strategic planning, and continuous leadership, resulting in essential resources provided to a local non-profit organization
- Demonstrated exceptional leadership and organization while serving as Patrol Leader and Assistant Senior Patrol Leader, fostering teamwork and efficiency within the troop