

Turner Jennings

jennings.t@northeastern.edu | (603) 664-2080 | linkedin.com/in/tjennings2

Education

2022-Present	PhD in Mechanical Engineering Project: <i>Development of Advanced Energy Mechanism for Combat Helmets</i> <u>Advisors:</u> Sinan Müftü and Rouzbeh Amini	Northeastern University, Boston, MA, USA
2017-2022	B.S./M.S. in Mechanical Engineering Concentration in Mechanics and Design, minor in Mathematics	Northeastern University, Boston, MA, USA

Research Experience

2022-Present	Graduate Research Assistant Conducted experimental testing of granular materials and finite element simulations of impact on helmeted heads. <u>Mentored by:</u> Dr. Sinan Müftü and Dr. Rouzbeh Amini	Northeastern University, Boston, MA, USA
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Mentorship and Volunteering

Students directly mentored:

2023	<i>Lily Bahremand:</i> Test sample manufacturing process design
2023	<i>Diego Acosta:</i> Finite element meshing automation in MATLAB

Other Mentorship and Volunteering:

2023	Northeastern University Young Scholars Program Mentored two high school students during a six week research program teaching about the research process and specific research skills.
2018-2021	FIRST LEGO League team coach Coached a team of 8-12 middle school students participating in robotics and design competition.

Conference Presentations

2023	Northeastern University Bioengineering Symposium	Boston, MA
2023	ARL Physics of Soldier Protection SP2 Meeting	Pittsburgh, PA

Awards and Fellowships

2022-2023	Sami Alsaif Doctoral Fellowship	<i>Total: \$75000</i> \$75000
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Industry Experience

2020	Manufacturing Quality Intern Supervised the “Firewall” team, a cross functional group of 12-15 specialists from engineering, production, supply chain, and quality. Coordinated proactive and reactive quality control efforts to ensure more quality issues closed than opened every month.	Bosch Automotive Technologies, Amata City, Thailand
2019	R&D Engineering Co-op developed an improved protein extraction system from concept to production, coordinating with contract manufacturers and consultants to create a functional and manufacturable design	DOTS Technology Corp., Natick, MA, USA

Skills

- **Programming Languages:** MATLAB, Python, C++
- **Finite Element Analysis:** LS-DYNA, Altair Hypermesh, ANSYS, ABAQUS,
- **Software:** SolidWorks (CSWP – Mechanical Design), Simulink, Confluence, Jira, JMP Statistical Analysis
- **Tools:** Split-Hopkinson Pressure Bar, 3D printing, laser cutting, soldering and PCB assembly, shop tools, hand tools

Affiliations/Memberships

American Society of Mechanical Engineers (ASME)