SUPRATIM SHAUD

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EDUCATION

Northeastern University **Boston, MA**
Bachelor of Mechanical Engineering *April 2028*
Relevant Courses: Statics, Thermodynamics, Physics 1 and 2, Calculus 1-3, General Chemistry, General Engineering Cornerstone, Differential Equations

New Exploration into Science, Technology, and Math **New York, NY**
High School *June 2023*

Skills

AutoCAD, SolidWorks, CREO, Waterjet Cutting, CNC Machining, MATLAB, C++, Arduino, Microscopy, Microsoft Office

EXPERIENCE

Mechanical Engineering Test Co-op **Andover, MA**
Bryna Technologies *January 2025- Present*
- Collaborated with senior Mechanical Engineers to test and improve firearm components, updated technical drawings, and conducted various tests to test the performance of firearms and resolve any failures to optimize
- Designed and reverse-engineered custom manufacturing tools to reduce production cost, improved legacy factory tools to simplify part installation, and increased assembly efficiency for factory workers
- Developed and implemented a fast magazine speed loader system, including a custom arbor press and projectile guide, to streamline the loading operation for assembly workers

Powertrain Mechanical Engineer **Boston, MA**
Northeastern Electric Racing Team *January 2025-Present*
- Collaborated with a Mechanical Engineer to manufacture precision components for an electric racing car using waterjet cutting.
- Designed and manufactured jigs for accurate and repeatable radiator mount assembly
- Investigated the efficiency of water vs. air cooling in a radiator to optimize the dissipation and enhance the performance

Biomechanics Lab Researcher **Boston, MA**
Material Science and Testing Research *September 2024- December 2024*
- Collaborate with Mechanical Engineers, Researchers, and Manufacturers to conduct high-strain-rate tests on soft materials to analyze data and inform manufacturing decisions to improve helmet performance
- Utilized manufacturing processes to prepare and test materials, ensuring consistency and accuracy in sample preparation and testing protocol
- Utilize Microscopy to analyze material microstructure, identifying key structures that influence the mechanical properties and performance

PROJECTS

Safety Machine Guard **Boston, MA**
January 2024- April 2024
- Collaborated with a team of 5 to test, design, and manufacture lightweight, durable switch holders, enhancing machine safety as an effective machine guard
- Developed a detailed CAD model and manufacturing for the switch holder, ensuring precision and efficiency during production while meeting the standard

GPS for animals **Boston, MA**
November 2023- December 2023
- Fabricated and tested multiple prototypes using hand tools and manufacturing processes to develop optimal solutions for animal tracking on the farm
- 3D designed and printed a box with SolidWorks to store the GPS, while making sure it is lightweight and durable to be attached to the animal

Chinchilla Shelter **Boston, MA**
September 2023- October 2023
- Designed a Chinchilla Wheel which will sprinkle volcanic dust on the chinchilla, making sure they have a shelter for rest and to keep them clean

INTERESTS

Languages: Bengali (fluent)
Interests: Football, Investing, App Development, Photography