

Nicholas Condoleo

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EDUCATION

Northeastern University (Boston, MA) – Candidate for BS in Mechanical Engineering and Bioengineering **May 2027**
Honors: Honors Program (2023-present), Dean's List (2023-present) **GPA: 3.98**

Activities: Innovators for Global Health, Northeastern Electric Racing, American Society of Mechanical Engineers, Tau Beta Pi Engineering Honors Society

*Relevant Courses (*with lab):* Dynamics*, Fluid Mechanics, Mechanics of Materials*, Biomolecular Dynamics/Control, Thermodynamics, Material Science*, Bioelectricity*, Quantitative Physiology*, Bioengineering Measurement and Statistics*, Statics, Physics 1 & 2*, Cornerstone of Engineering

Lynbrook Senior High School (Lynbrook, NY) **June 2023**
Honors: Class of 2023 Salutatorian, AP Scholar with Distinction **GPA: 103.4**

Activities: Science Honor Society (President), Math Honor Society (Vice President), National Honor Society (Treasurer), Mathletes Team (Captain), Science Olympiad Team (Captain), Science Bowl Team (Captain), Italian Club (Vice President), and Science Research Program

Relevant AP Courses: Biology, Chemistry, Physics 1, Calculus BC, Microeconomics

SKILLS

Software: SolidWorks (CSWA-certified), Finite Element Analysis, MATLAB, AutoCAD, ImageJ, and 3D Slicer

Lab Techniques: Aseptic Technique, Pipetting, Centrifuging, Gel Electrophoresis, Scanning Electron Microscopy, Spectrophotometry, Protein Extraction, SDS-Page, PCR Analysis, and Hazardous Waste Safety Training

Technical Skills: 3D Printing, Tensile Testing, Laser Cutting, Soldering

EXPERIENCE

Northeastern Electric Racing (Boston, MA) – Vehicle Dynamics Engineer **Sep. 2024 – Present**

- Design and model suspension system components and mounts, ensuring compatibility
- Perform finite element analysis (FEA) using SolidWorks to optimize for structural integrity and weight reduction
- Coordinate effectively with other subgroups, including aerodynamics and chassis groups for integration

Innovators for Global Health, Northeastern University (Boston, MA) – Design Team Engineer **Sep. 2023 – Present**

- Develop a blue light phototherapy system to treat infants suffering from neonatal jaundice
- Collaborate with RIDGE Regional Hospital in Ghana to tailor the device for clinical usability and reliability
- Conduct rapid prototyping within a team of engineers to refine product performance and functionality

Hofstra University (Hempstead, NY) – Research Assistant **June 2022 – Dec. 2022**

- Extracted keratin-associated proteins (KAPs) from human hair and confirmed protein presence with SDS-Page
- Utilized tensile testing on damaged hair and analyzed structural changes with scanning electron microscopy
- Interpreted statistical data to demonstrate effectiveness of KAPs in restoring strength to damaged hair
- Achieved 3rd in Materials Science at the New York State Science and Engineering Fair (NYSSEF)

MC Body Works Inc (Valley Stream, NY) – Assistant Manager **June 2021 – Aug. 2024**

- Oversaw operations, managed budgets, ensured delivery of efficient high-quality auto-body repairs
- Employed advanced diagnostic tools to accurately assess collision damage and repair needs
- Evaluated vehicle damage and provided precise repair estimates using CCC ONE software

PROJECTS

Educational Children's Science Exhibit (Boston, MA) – Cornerstone of Engineering Project **Oct. 2023 – Dec. 2023**

- Created a "Whac-A-Mole" inspired game using SolidWorks and CAD to teach children about invasive species
- Programmed servo motor pulley system and integrated custom game code into Arduino for seamless functionality
- Analyzed user feedback to improve engagement and educational impact, optimizing the exhibit design

INTERESTS

- Soccer and Formula 1 enthusiast who finds inspiration in teamwork and precision engineering
- Passionate about traveling, exploring diverse cultures, and experiencing global cuisines
- Enjoys building and creating functional projects, with a curiosity for solving complex engineering challenges