

Hector Turner

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SUMMARY

Biomedical Engineering undergraduate with supervised laboratory and academic experience supporting drug device combination product research. Hands on work includes **benchtop device testing**, placebo like formulation preparation, mechanical testing, **materials characterization**, **experimental design**, data analysis, laboratory documentation, and technical presentation. Capstone research examined insertion and deployment behavior through representative models, fixtures, instrumentation, and repeatable test procedures. Materials research included polymer sample preparation, physical measurements, comparative analysis, and traceable records. Coursework and project leadership strengthened **analytical problem solving**, organization, communication, and independent execution across concurrent deliverables. Skilled with Excel, OneNote, Outlook, PowerPoint, SharePoint, Teams, Word, Slack, and laboratory documentation workflows. Permanently authorized to work in the United States without sponsorship and prepared for fully onsite laboratory research.

EDUCATION

Bachelor's Degree in Biomedical Engineering

2028

Worcester Polytechnic Institute GPA: 3.6

Worcester, MA

Coursework: Mechanics, materials characterization, experimental design, biomedical device testing

TECHNICAL SKILLS

- **Laboratory Testing:** Benchtop device testing, mechanical testing, functional testing
- **Materials Science:** Polymer characterization, physical properties, mechanical properties
- **Experimental Methods:** Experimental design, comparative testing, protocol refinement
- **Data Analysis:** Microsoft Excel, trend analysis, data interpretation
- **Laboratory Records:** Electronic notebooks, sample identifiers, method documentation
- **Device Evaluation:** Insertion testing, removal testing, deployment testing
- **Microsoft Office:** Excel, OneNote, Word
- **Collaboration Platforms:** Slack, Teams, SharePoint
- **Presentation Tools:** PowerPoint, technical reports, project presentations
- **Biomedical Research:** Drug device combinations, placebo formulations, clinical research

SKILLS

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|------------------------------|----------------------------|---------------------------|--------------------|
| • Benchtop testing | • Sample preparation | • Technical presentations | • SharePoint |
| • Mechanical testing | • Data analysis | • Excel | • Teams |
| • Materials characterization | • Laboratory documentation | • OneNote | • Drug development |
| • Experimental design | • Device testing | • PowerPoint | |

EXPERIENCE

Biomedical Engineering Student Researcher, Capstone Project

September 2025 - Present

Worcester Polytechnic Institute

Worcester, MA

Supports a supervised capstone investigation of prototype combination product delivery behavior. Owns fixture setup, **sample preparation**, test execution, data review, laboratory records, and faculty presentations while helping translate findings into practical prototype recommendations.

- Defined benchtop insertion studies using **representative models** and repeatable **fixtures** for prototype evaluation
- Built sample procedures controlling setup variables across multiple laboratory **test conditions**
- Captured force and displacement observations with mechanical **instrumentation**, then organized results in Excel
- Compared fixture geometry and material properties against device performance during prototype testing
- Maintained electronic **laboratory records** covering methods, observations, identifiers, results, and conclusions
- Presented interim findings in PowerPoint, translating evidence into recommendations for prototype iteration

Undergraduate Materials Research Assistant, University Research Lab

January 2025 - August 2025

Worcester Polytechnic Institute

Worcester, MA

Conducted supervised polymer materials research supporting biomedical device testing. Prepared placebo like samples, performed physical and mechanical characterization, analyzed comparative **results**, and improved traceability across formulation, measurement, and reporting activities.

- Characterized polymer formulations selected to model mechanical behavior for biomedical device testing
- Prepared small batch placebo like materials under controlled formulation and recording procedures
- Performed physical and mechanical measurements, repeating tests when **observations** showed unexpected behavior
- Analyzed Excel data across material conditions and identified **trends** affecting benchtop suitability

- Refined sample labeling and **OneNote** workflows, improving traceability from preparation through analysis
- Summarized **methods** and findings for research group review, addressing variability and **experimental design**

Mechanical Testing Project Lead, Course Project

September 2024 - December 2024

Worcester Polytechnic Institute

Worcester, MA

Led a four student laboratory study connecting material stiffness, loading conditions, and mechanical response. Coordinated sample preparation, fixture consistency, scheduling, data visualization, shared documentation, and final communication under faculty guidance.

- Led four student testing of material stiffness, loading conditions, and mechanical response
- Coordinated **sample preparation** and scheduling within laboratory safety and faculty expectations
- Developed fixture setup and measurement checklist for consistent specimen comparison
- Organized Excel results and created plots for technical review of material behavior
- Drafted methods and results in **Word**, maintaining controlled files through **Teams**
- Delivered final **presentation** explaining test design, findings, limitations, and recommendations

PROJECTS

Combination Product Deployment Study 📅 2026

A prototype test fixture made small setup differences visible. Evaluated insertion and deployment behavior through representative models, force observations, repeatable procedures, and comparative analysis, then documented follow up recommendations for future testing.

Polymer Formulation Characterization 📅 2025

A sample label became a research tool. Prepared placebo like polymer materials, measured physical and mechanical properties, compared conditions in Excel, and connected observations with suitability for representative device studies.

LEADERSHIP & AWARDS

- Dean's List recognition, 2024 through 2026, reflecting sustained academic performance.
- Undergraduate Project Presentation Recognition, 2025, for clear communication of technical findings.
- Biomedical Engineering Society Student Chapter Project Team Coordinator, 2025 to Present, coordinating peer project activities.

CERTIFICATIONS

- University Laboratory Safety and Chemical Hygiene Training 📅 2025
- Microsoft Learn: Analyze Data with Excel 📅 2025

PROFESSIONAL AFFILIATIONS

- Biomedical Engineering Society Student Chapter, contributing to peer projects and professional community activities.
- Campus Peer STEM Mentor, supporting fellow students through practical academic guidance and encouragement.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST