

Timothy Burton

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PROFESSIONAL SUMMARY

Biomedical Engineering honors student concentrating in Biomechanics of Injury at Wayne State. Career and academically driven with extensive experience with two different kinds of CAD software including being certified at the associate level in Solidworks. For the past year and a half, worked in a research laboratory designing mechanical and electrical devices. Spent the past two years working as a peer mentor supervising the academic career of freshmen engineering students and as a MATLAB teaching assistant at Wayne State. Currently working as a validation intern at Navient Solutions Inc.

COMPUTER SKILLS / STRENGTHS

MATLAB
Python
Microsoft Office

Solidworks (CSWA)
Simulink
C++

NX

EDUCATION

Wayne State University: Bachelor of Science in Biomedical Engineering **Anticipated: May 2020**

- Current WSU **GPA: 3.79** Transferred from Ferris State University with a GPA of 3.50.
- Courses Taken: Anatomy and Physiology, Organic Chemistry, General Chemistry, General Biology, Calculus 1-3, Differential Equations, Physics, Statics, Materials Science, Electrical Circuits, Dynamics, Mechanics of Materials, Biomechanics, Engineering Design Labs

PROFESSIONAL DEVELOPMENT

Validation Intern at Navient Solutions Inc. **May 2019 to Present**

- Validating and building procedures and test plans for engineering team.
- Manages, inspects, and tests procedures and infrastructure to validate the products/systems.
- Writing reports providing proof of validation and inspection.

Research Assistant at Wayne State University **Oct 2017 to May 2019**

- Worked in biomedical engineering research laboratory using MATLAB, Excel, and NX 12 to research, design, and run experiments on endocervical endoscope.
- Received grant funding (\$2,300) through UROP to design endocervical endoscope using ultrasound and photoacoustic imaging modalities to efficiently image cervical cancer.
- Presented research at Undergraduate Research and Creative Projects Conference at Wayne State University. In the process of publishing a co-authored paper on research in Photoacoustics journal.

Peer Mentor in the Engineering Department at Wayne State University **Sept 2018 to May 2019**

- Mentored 8 incoming freshmen engineering students as a paid position at Wayne State University.
- Met with students on a biweekly basis to make sure they are adjusting to college well.
- Helped 75% of students maintain a 3.5 GPA or above their first semester.

Teaching Assistant at Wayne State University: MATLAB **Sept 2017 to May 2018**

- Assisted professor by answering students' programming questions.
- Graded homework, quizzes, and tests for 70+ students.
- Tutored students at the STEM Commons.

ACCOMPLISHMENTS

- Wayne State Dean's List **Fall 2017 through Winter 2019**