

Tyler N. Morrison

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Ask me about my favorite projects that involved using software to solve engineering problems!

Skills and Certifications:

Microsoft Office

Programming Experience:

VBA, MATLAB, Python, C, and Mathematica

CADD/3D Modeling Experience:

SolidWorks, Inventor, Revit and AutoCAD

Certified OSHA 10 Hours Training

Construction Safety and Health

Projects and Hobbies:

Raspberry Pi—Built a CO₂ data logger with cloud data storage from Raspberry Pi and stock sensor

Tutoring—Freelance tutor for students in a wide range of engineering and math courses at the University of Tulsa

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Education

B.S. in Mechanical Engineering with Mathematics Minor

The University of Tulsa, Tulsa, OK

(Completed Hours: 111)

Current Senior — Expected Graduation: May 2017

GPA: 4.00/4.00

- Institution Nominee for the National Barry Goldwater Scholarship
- Presidential Scholar and National Merit Finalist
- President's Honor Roll – Six Semesters

High School Diploma

Blue Valley West High School, Overland Park, KS

Graduated: May 2013

GPA: 4.00/4.00

- District Superintendent's Award Recipient with Eight Semesters on Principal's Honor Roll

Experience

NSF Interfaces and Surfaces REU Clemson University – Clemson, SC
May 2016—Current

- Conducting computer simulations of hydrogel membranes under illumination
- Studying the role of positive feedback on hysteresis in volume phase transition

Biological Robotics at the University of Tulsa University of Tulsa – Tulsa, OK
May 2015—Current

- Pursuing independent research in grasping and manipulation by quadrupeds
- Developed interactive 3D model of quadruped kinematics and tip-over stability
- Studying methods for measuring stability of robots engaged in grasping tasks
- Presentation at University of Tulsa Research Colloquium earned top award in the Petroleum and Mechanical Engineering session

Assistant to ME Department Faculty University of Tulsa – Tulsa, OK
Spring 2016

- Selected as a grader for Junior-level Mechanics of Materials course

Mechanical Engineering Intern Burns and McDonnell – Kansas City, MO
Summer 2015

- Aviation and Federal Division – Mechanical Department
- Developed comprehensive airflow schematic and assisted in accompanying ductwork design for Tinker AFB Squadron Operations Facility
- Became an expert in a highly specialized program in order to develop a complete model of the duct system at Portland International Airport
- Worked with supplier and manufacturer to develop a custom air handling unit at Portland International Airport
- Assisted department manager in performing a mechanical project quality control review for the Sampson School at Guantanamo Bay
- Developed OneNote notebook and centralized resource folder for future new hires and regional offices to use as a coordinated reference

Jobsite Administrative Assistant Navitas ESCO – Olathe, KS
Summer 2014

- Assisted Navitas project managers in administrative tasks at jobsites in Kansas City

Honors and Activities

Tau Beta Pi - Involved Member

(2015—Current)

University of Tulsa Putnam Competition Team Member

(2014—2016)

Boy Scouts of America

(2001—2013)

Eagle Scout (2011) – Worked with Ozanam, a home for troubled children, to orchestrate a project building bookshelves for a small library system

- Represented the United States at the 2011 World Scout Jamboree in Sweden