NATHAN C. SPOTTS

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OBJECTIVE

To obtain a full-time programming position where I can dedicate my passion, experience and knowledge in the field of automation and software development.

EDUCATION

August 2015 –
Present

The University of Toledo, Toledo, Ohio
Bachelor of Science, Mechanical Engineering
- Graduation Date: May 2019
- Grade Point Average: 3.976

July 2013 –
February 2015

The Michigan Institute of Aviation and Technology, Canton, Michigan
Associate of Science, Aviation Maintenance Technology
- FAA certified Powerplant License
- Grade Point Average: 4.00

January 2014 –
August 2014

Wayne County Community College, Taylor, Michigan
Fulfilled general education requirements for both Associate and Bachelor Degrees
- Grade Point Average: 4.00

**AWARDS &
HONORS**

- Summa Cum Laude
- President's List
- Valedictorian of High School Class
- National Society of Collegiate Scholars

**COMPUTER
SKILLS**

- Microsoft Windows XP/7/8/10
- Excel, Word, PowerPoint
- Python, C++, HTML, CSS, VBA
- Linux
- ROS
- MATLAB
- MathCAD
- AutoCAD
- SolidWorks, Solid Edge

EXPERIENCE

Nov 2019 –
Present

Tronair, Swanton, Ohio – *Aircraft GSE Provider*
Mechanical Engineer
- Developed VBA algorithm to analyze inventory parameters during massive product migration.
- Supported the designs and manufacturing of HPUs, GPUs, hydraulic jacks, and electric tugs.

May 2018 –
Present

NES Custom Design, Wauseon, Ohio
Owner of Small 3D Printing & CNC Engraving Business
- Began an online custom design, 3D printing, and CNC laser etching service.

May 2018 –
May 2019

Therma-Tru Doors, Maumee, Ohio
R&D Engineering Co-op
- Developed test methods to understand root causes of door system failures.
- Maintained and supported 3D printer prototyping for various projects.

May 2017 –
August 2017

Process Engineering Co-op
- Improved several processes by incorporating new designs, functions, or job roles.
- Modeled, drafted, completed time studies, and analyzed data.

August 2016 –
January 2017

Platform Engineering Co-op
- Collaborated on various projects to evaluate, improve, test, and implement new ideas.
- Modeled, drafted, and manipulated data.

**COLLEGIATE
ACTIVITIES**

- Student Member of American Society of Mechanical Engineers.
- Competed in a Swarm and Search AI Development Challenge using Python at Dayton AFRL

**PERSONAL
PROJECTS**

- Designed a self-balancing, obstacle avoiding robot from scratch using an Arduino microcontroller, 6 axis IMU, wheel odometry, and laser range finder.
- Designed a wood stove PID temperature controller over wifi.
- Designed and built a "Onewheel" from scratch with custom software on an Arduino microcontroller.

Personal Website and Project Portfolio:
https://nespotts.github.io/Personal_Website/