**Nathan C. Spotts**

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

**EDUCATION** **The University of Toledo**, Toledo, Ohio

August 2015 – *Bachelor of Science, Mechanical Engineering*

Present  Graduation Date: May 2019

 Grade Point Average: 3.976

July 2013 – **The Michigan Institute of Aviation and Technology**, Canton, Michigan

February 2015 *Associate of Science, Aviation Maintenance Technology*

 FAA certified Powerplant License

 Grade Point Average: 4.00

January 2014 – **Wayne County Community College**, Taylor, Michigan

August 2014 *Fulfilled general education requirements for both Associate and Bachelor Degrees*

 Grade Point Average: 4.00

**AWARDS &**  Summa Cum Laude  Valedictorian of High School Class

**HONORS**   President’s List  National Society of Collegiate Scholars

**COMPUTER**   Microsoft Windows 10, Linux  SQL, JavaScript  MATLAB, MathCAD

**SKILLS**  Excel, Word, PowerPoint  VS Code  AutoCAD

Python, C++, HTML, CSS, VBA Git SolidWorks, Solid Edge

**EXPERIENCE Tronair**, Swanton, Ohio – *Aircraft GSE Provider*

Nov 2019 – *Mechanical Engineer*

Present  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 – **NES Custom Design**, Wauseon, Ohio

Present *Owner of Small 3D Printing & CNC Engraving Business*

 Began an online custom design, 3D printing, and CNC laser etching service.

**Therma-Tru Doors**, Maumee, Ohio

May 2018 – *R&D Engineering Co-op*

May 2019 Developed test methods to understand root causes of door system failures.

Maintained and supported 3D printer prototyping for various projects.

May 2017 – *Process Engineering Co-op*

August 2017  Improved several processes by incorporating new designs, functions, or job roles.

 Modeled, drafted, completed time studies, and analyzed data.

August 2016 –*Platform Engineering Co-op*

January 2017  Collaborated on various projects to evaluate, improve, test, and implement new ideas.

 Modeled, drafted, and manipulated data.

**COLLEGIATE**  Student Member of American Society of Mechanical Engineers.

**ACTIVITIES** Competed in a Swarm and Search AI Development Challenge using Python at Dayton AFRL

**PERSONAL** Designed a self-balancing, obstacle avoiding robot from scratch using an Arduino

**PROJECTS** 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.