Stephen Metzger

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UNIVERSITY OF LOUISVILLE.

J.B. SPEED SCHOOL OF ENGINEERING

OBJECTIVE	First Computer Engineering/Science Co-op Position	January 2 – May 3, 2019

EDUCATION	**Bachelor of Science in Computer Engineering/Computer Science**	Expected May 2021
	Master of Engineering in Computer Engineering/Computer Science	Expected May 2022
	J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky	**GPA 3.366/4.0**
	Trustees Scholarship Recipient	Hours Completed: 48

SKILLS/COURSEWORK   **Technical Skills/Relevant Coursework**

- **C, C++** Programming
- **Java** Programming
- **Python** Programming
- **HTML/CSS**

- Computer Hardware & Maintenance
- **Arduino** & **Raspberry Pi**
- Information Structures (Fall 2018)

APPLIED EXPERIENCE

C/C++: Developed a 3D tic-tac-toe game with a classmate. The game included two simple AIs that would battle each other to win the game.

JAVA: Nominated by teacher and peers to lead the programming for a high school senior project to make a simple RPG game using the JFrame library.

Designed a simple JAVA space dogfighting game that features enemy AI and a boss battle. (github: https://github.com/stephenmetzger99/spacegame)

Python: Created a program that performed vector calculations for a surveying project for an intro to python course in an engineering fundamentals class.

Arduino: Wrote a program for a group project involving the creation of a windmill. The Arduino was responsible for calculating the efficiency of the windmill and displaying windmill information on an LCD screen. It also communicated with a **PLC** that utilized ladder logic with to track and log the rpms of a windmill.

FSAE(UofL motorsports): **Arduino** was used to program a steering wheel for a formula one racecar. The wheel includes a touch screen and functioning paddle shifters as well as an LED strip to show the RPMs and when to shift gears (https://github.com/stephenmetzger99/FSAE-Programming).

Entrepreneurship Competition: received 2nd place award and $200 for presenting an app to a board of CEOs at an entrepreneurship competition.

Website Design: Used HTML5 and CSS (www.stevemetzger.me).

UofL DerbyHacks 2018: Competed in a hackathon team with two friends, assisted creating an application that uses a neural network to identify empty parking spaces in a parking lot using a camera feed.

WORK EXPERIENCE	**Ace Hardware**	April 2016 - May 2017
	Sales Associate and Cashier	Independence, KY

- Utilized communication skills to assist customers with hardware decisions, handled cash and maintained accuracy
- Worked with the sales team to maintain the store and to stay on top of changing sales and inventory

	Self-Employed	June 2017 - August 2017
	Lawn Care, Landscaping, & Construction	Delhi, Ohio

- Trusted to work on two homes while the homeowner was away
- Built a driveway, laid cinderblock retaining wall, lawncare, and did workshop and garage maintenance

ACTIVITIES/HONORS

Member of UofL FSAE January 2018 – present
Lead Programmer and Co-Captain of the FSAE electronics sub team

Hobbies include programming, building computers, small electronics (wiring, soldering)

Housing Manager, Sigma Phi Epsilon fraternity May 2017- present

RaiseRed Ambassador - October 2017 - February 2018