

OBJECTIVE	Second Computer Engineering/Science Co-op Position	January 2 – May 4, 2019
EDUCATION	<p>Bachelor of Science in Computer Engineering/Computer Science Expected May 2020</p> <p>Master of Engineering in Computer Engineering/Computer Science Expected May 2021</p> <p>J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky GPA 3.957/4.0</p> <p><i>Responsible for 100% of tuition</i> Hours Completed: 90</p> <p>High School Diploma May 2016</p> <p>Randall K. Cooper High School, Union, Kentucky GPA 4.6/4.0</p>	
SKILLS/COURSEWORK	<p>Technical Skills/Relevant Coursework</p> <ul style="list-style-type: none"> • C, C++ • C#, Unity • Java • MongoDB • Web Development – Node JS • Linux • SQL • Heroku • MATLAB • Python • TensorFlow/Keras • Android Development • VIM/IntelliJ/Visual Studio • Embedded Systems • JSON/XML 	
APPLIED EXPERIENCE	<p>Course/Volunteer Projects:</p> <p>Global Mamas Volunteer: Volunteered in Ghana for an NGO and helped create and update databases for their HR system using SQL and C#.</p> <p>C/C++: Interfaced Arduino circuitry and code with a self-constructed windmill to perform calculations and display output to LCDs. (github.com/aaronfox/ENGR-111-Arduino-Windmill-Display.)</p> <p>Independent Projects:</p> <p>Personal Website and Blog. Used MongoDB, ExpressJS and NodeJS. (see www.aaronfox.me)</p> <p>Unity Game Development: Created a 3D shooting game with semi-intelligent AI enemies.</p> <p>Reflection: Puzzle game created using Unity2D. (github.com/aaronfox/Reflection)</p> <p>Redbird Robotics: Developed on drones using the Robot Operating System library (ROS) for flight control and implemented each sub-team's integration as technology co-captain of Louisville's robotics team.</p> <p>River City Rocketry: Leading Payload team's effort on designing an autonomous drone that serves as payload for a launched rocket.</p> <p>Hackathons:</p> <p>Hack The Hill: Placed third by creating a bot that directly contacts and replies to representatives and senators, advocating for Net Neutrality. (github.com/aaronfox/Net-Neutrality-Bot)</p> <p>VandyHacks : Created a Virtual Reality escape room game using the Unity Gaming Engine for Oculus Rift.</p> <p>RevolutionUC: Created a fan hub based off the podcast <i>Hello Internet</i>, which included games such as "CGP Grey Flappy Bird" and "Podcast Bingo." (github.com/aaronfox/Hello-Internet.)</p> <p>CatHacks 3: Competed in the Gattton Fintech Challenge and created a web app called "Decentral," a micro-lending loans prototype. (github.com/aaronfox/Decentral)</p>	
WORK EXPERIENCE	<p>Johns Hopkins Applied Physics Laboratory May 2018 - August 2018</p> <p><i>Technical Aide Intern – 40 hours/week</i> Laurel, MD</p> <ul style="list-style-type: none"> • Researched and programmed neural networks/deep learning networks using TensorFlow and Keras. • Performed experimental infrared analysis using MATLAB. • Worked and developed on an embedded BeagleBone system in a Linux environment. • Obtained Secret security clearance. <p>Great American Insurance Company June 2016 - August 2016</p> <p><i>DevOps Intern – 40 hours/week</i> Cincinnati, OH</p> <ul style="list-style-type: none"> • Developed service to improve Health Dashboard UI for code complexity using Java Code Coverage. • Learned best development practices from sources such as Pluralsight and Safari Books Online. • Headed a Code Kata presentation demonstrating a basic workflow with Docker Hub. 	

- Participated and explored activities and events such as daily scrums, sprint planning, and retrospectives using the Scaled Agile development framework.

Reach Ambassador

August 2017 – May 2018

School Ambassador and Computer Engineering Student Mentor

Louisville, KY

- Mentored seventy first year CECS students and guided them through their first year of college.

ACTIVITIES/HONORS

Co-Captain and Technology Manager, Redbird Robotics, June 2017 – August 2018

- Won second place in the International Aerial Robotics Competition at Georgia Tech in 2017
- Communicated with all sub-teams through Slack, meetings, and task managing systems
- Used team version control to integrate all the sub-team's work

River City Rocketry, Payload Team Member, August 2018 - Present

- Leading efforts toward development of autonomous drone for the 2018 mission

Louisville Makes Games!, January 2017 - Present

- Participating in workshops and meetups to learn collaborative indie game development.

Member, **Association for Computing Machinery (ACM)**, August 2016 - present

- Participating in the Hacking Student Interest Group

Tau Beta Pi Engineering Honor Society, December 2017 – Present (*limited to top 1/8th of junior class*)

Brown Fellows Program, June 2016 – Present

- One of Kentucky's premier full scholarships which includes two world travel enrichment projects.
- Created independent project in Ghana working with an NGO to assist their SQL/C# database needs.

Phi Delta Theta, Active Fraternity Member

Valedictorian, Randall K. Cooper High School

Freshman LEAD, August 2016 – June 2017

- Engaged in community events and developed leadership skills.
- Initiated and carried out a Clinton Global Initiative Project with my team through Uspiritus.

Kentucky Governor's Scholar Program Alumnus

Team Captain, High School Baseball and Basketball Teams, Cooper High School, May 2015 – May 2016