

ARTHUR SILVEIRA

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EDUCATION

University Of Kentucky

- Degree: **B.S. in Computer Science**
- Expected: **May 2018**
- GPA: **3.5**
- Relevant Coursework: **Honors Algorithms Design and analysis, Micro-computer Organization, Discrete Mathematics, Program Design, Abstraction, and Problem Solving(C++)**

SKILLS

- Languages : **C++** | Familiar with: **Python, Java, HTML5, CSS**
- Technologies : **Git, Linux, Vim, Arduino, LaTeX, Visual Studio**

PROJECTS

Kentucky Solar Car

Currently developing python and C++ software to gather, display and log data from the solar car. As a member of the strategy team, I have to use git to work closely with a team, to solve various problems regarding how all different components of the car communicate with each other. Through use of technologies such as serial communication, regular expressions, mySql and uDev rules we are able to make use of all the data being produced by these components.

Laser Projector

Led a small team of students in building a laser projector. Developed drivers to control a laser diode, galvanometer scanner drivers to control the laser beam, and a circuit which utilizes an Arduino to control the drivers. Developed C and C++ games which use the projector as a display.

Lantern

Developed a game in under 24 hours for a hackathon. Utilized the Processing language to communicate with the Arduino over a USB serial bus. Allowed players to use an Arduino as a physical controller for the game and to see their actions turn into images on the screen.

www.cathacks.com - **CatHacks**

Organized the first ever national Hackathon held at the University of Kentucky. Collaborated with other ACM members to secure sponsors, build a website, and coordinate with the University's administration in order to create a weekend long, semi-annual event.

LEADERSHIP

- Association for Computing Machinery at *University of Kentucky* 08/14-Present
- President of Technology Club at *BCTC* 01/15 - 05/15
- Transfer Ambassador for Blue+ Program at *BCTC* 08/14 - 05/15