

James M. Conroy

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Education

The Catholic University of America **Bachelors of Science Computer Science** **Expected May 2019**
Relevant Coursework: Analysis of Algorithms, Data Structures, Software Engineering, Unix Programming

Projects

Integrated Drones **September 2018 — May 2019**

My five person team created a system to find efficient pathways for autonomous ground vehicles, using an aerial drone. The project involves Raspberry Pis, Arduino, Python, and computer vision.

Queen Teams Problem **February 2019**

This project finds a configuration where no queen threatens an enemy queen. The project uses a hill climbing algorithm to find the solution. Made using c++.

K-Distance Domination **April 2018**

This project generates a random vertex edge graph and then finds the set of nodes within k steps from any node. Made using Processing.

Cube Quest **November 2016**

This is a video game level made by CUA's Fall 2016 Computer Graphics class. I contributed the environment for this student made computer game. The project was made using the OpenGL library for Java.

Work Experience

Technology Services **The Catholic University of America** **Fall 2015 to Spring 2019**

I provided technical support for users over the phone, via email, and in person. The support includes but is not limited to: resetting passwords, installing software, installing computers, installing new hardware in computers, and connecting computers to the campus' Active Directory.

Technology Center Instructor **Boy Scouts of America** **Summer 2016**

In this position I set up and administered a lab of 25 Ubuntu Linux laptops. I also instructed 4 merit badge session, leading six hundred scouts to earn the Personal Management, Space Exploration, and Electronics merit badges.

Technical Skills

Programming Languages: C, C++, C#, Java, MATLAB, Processing, Python, SQL.

Tools: Awk, Git, Linux, Sed, Vim Windows.

Awards and Honors

Eagle Scout **2012**

Nominated for CUA Student Worker of the Year **2018**

Nominated for best Undergraduate Project at CUA Research Day **April 2018**