James M. Conroy

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Education

The Catholic University of America   **Bachler 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   **Fall 2015 to Present**

Employed by The Catholic University of America, 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   **Summer 2016**

Employed by the Boy Scouts of America, Mason Dixon Council Hagerstown, PA Sinoquipe Scout Reservation, 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, Processing, MATLAB, SQL, Python
Tools: Vim, Git, Windows, Linux

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**

Sinoquipe Scout Reservation   **August 2016**

Honor Staff Award, Program Director Award, Camp Director Award