

# James M. Conroy

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## Education

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**The Catholic University of America**      **Bachelor of Science Computer Science**      **Expected May 2019**  
**Relevant Coursework:** Intro to Database Management, Analysis of Algorithms, Data Structures, Software Engineering, Unix Programming

## Projects

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**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 Pi, 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

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**Technology Services**      **Fall 2015 to Spring 2019**

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

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**Programming Languages:** c, c++, c#, Java, MATLAB, Processing, Python, SQL.  
**Tools:** Awk, Git, Linux, Sed, Vim Windows.

## Awards and Honors

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**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