James M. Conroy

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Education

The Catholic University of America   **Bachelor of Science, Computer Science**   **May 2019**
Relevant Coursework:

- Analysis of Algorithms
- Artificial Intelligence
- Data Structures
- Robotics

- Software Engineering
- Computer Graphics
- Unix Programming

Technical Skills

Programming Languages:

- AWK
- C
- C++

- C#
- Java
- MATLAB

- Processing
- Python
- SQL

Tools:

- GIT
- LaTeX

- Linux
- SED

- VIM
- Windows

Projects

Integrated Drones   **September 2018 — May 2019**

An aerial drone system to find efficient paths for autonomous ground vehicles.

- Raspberry Pi
- Computer Vision
- Arduino

- Search Algorithm
- Python

Queen Teams Problem   **February 2019**

Created an AI to find a solution to a variation of the classic chess queens problem.

- Hill Climbing Algorithm

- C++

K-Distance Domination   **April 2018**

This program generates a random vertex edge graph and finds the minimum K distance dominating sub graph.

- Graph-Theory

- Java / Processing

Work Experience

Technology Services　　　**The Catholic University of America**　　　**September 2015 to May 2019**

- Installed computers:
    - Installed the University's OS
    - Created necessary users
    - Installed and validated necessary software
    - Connected to the Campus' domain for active directory management
- Migrated Campus Computers to new OS
    - Windows 7 to 10
    - Mac OS High Sierra to Mac OS Mojave
    - Using USB install media and PXE network boot.

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

- Lab Administration
    - installed 25 Ubuntu Linux Computers
    - limited internet access using the router's MAC white list feature
- Counseled six hundred scouts taking the following merit badges:
    - Personal Management
    - Space Exploration
    - Electronics

Awards and Honors

Nominated for CUA Student Worker of the Year　　　**May 2018**
Nominated for best Undergraduate Project at CUA Research Day　　　**April 2018**
Eagle Scout　　　**2012**