Company/Name  CIPS/James M. Conroy
Position      Computer Scientist (Level AK01)
Clearance     US/Clearable

## Education

**The Catholic University of America**      **Bachelor of Science Computer Science**      **Expected May 2019**

**Relevant Coursework:** Analysis of Algorithms, Artificial Intelligence, Data Structures, Software Engineering, Unix Programming, Graph Theory

## 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 used 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 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, Boy Scouts of America**                             **Summer 2016**

Employed by the Boy Scouts of America, Mason Dixon Council Hagerstown, PA Sinoqipe 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.

**Technology Center Director, Boy Scouts of America**                               **Summer 2015**

Employed by the Boy Scouts of America, Mason Dixon Council Hagerstown, PA Sinoqipe Scout Reservation, I set up and ran the technology program for the camp season, lead three merit badge sessions, and managed two staff members.

## 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**