

# JULIO C. GUTIERREZ

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## EXPERIENCE

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- Sep 2014 - Present    **Research Assistant, *Institute for Simulation and Training, University of Central Florida***
- Contributed to a C++ codebase by adding functionality to stream live video using the Microsoft Kinect via LibVLC.
  - Developed C++ code to control a ROS-based robot.
  - Wrote C++ code to enable network communication in an Unreal Engine virtual world.
- Jun – Aug 2014        **SEAP Intern, *Naval Air Warfare Center Training Systems Division***
- Implemented a FY14 program dubbed the Common Architecture Toolset Upgrade (CATS Upgrade). Deployed a standardized development environment for the Concept Development & Integration Lab (CDIL).

## SOFTWARE DEVELOPMENT

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- Languages            **Proficiency in C++.**
- Basic familiarity with C#, Java, PHP, Python, and HTML/CSS/JavaScript.
- Software             **Open source: <https://github.com/jgcoded>**
- RaspbOOP – A Raspberry Pi powered robot library dedicated to simplifying the usage of GPIO peripherals. C++.
  - NetflixRouletteC – A wrapper for the Netflix Roulette API. C.
  - QTGaussianBlur – A QT application that applies a Gaussian blur onto images. C++.
  - [www.fl861.com](http://www.fl861.com) – A website that I developed for my high school’s AFJROTC unit. HTML, CSS, JavaScript, PHP.

## EDUCATION

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- 2014 – Present        **Seeking a Bachelor’s Degree in Computer Science, *University of Central Florida***
- 2012 – 2014          **Associate’s Degree, *Valencia College***
- 2010 – 2014          **High School Diploma, *Colonial High School***

## ACCOLADES

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- Valedictorian        **Colonial High School, *Class of 2014***
- Gates Scholar        **Gates Millennium Scholarship, *Cohort year 2014***