

# Alexis J. Renderos

## Computer Engineer

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## Education

### B.S. Computer Engineering @ Iowa State University

Aug 2018 – May 2022 / Ames, Iowa

- Recognized as a Google Hispanic Student Leadership Scholar

## Work Experience

### Software Engineering Intern / Campus Ambassador @ Collins Aerospace

May 2019 – Present / Cedar Rapids and Ames, Iowa / Active Security Clearance: Secret

- Developed mission-critical software using **C++** for the ARC-210 family of military aircraft radios.
- Designed and maintained automated tests in **Python** for regression testing.
- Practiced Agile and Scrum in 2 week sprints in a team of 10 developers.
- Represented Collins Aerospace by sharing information and personal experiences with students at Iowa State University and prospective hires.
- Served as a liaison between the student body and Collins Aerospace.

### Chief Operator @ 88.5 KURE Ames Alternative

Sept 2018 – Present / Ames, Iowa

- Oversaw all broadcast functions, ensuring the station met FCC requirements.
- Worked with a team of 50 DJs and talk show hosts in order to maintain a cohesive programming schedule.
- Produced, mixed, and mastered broadcast content recorded in studio for air.

### Systems Support Specialist @ Iowa State University Biology IT

Feb 2019 – May 2019 / Ames, Iowa

- Worked constructively with researchers and professors to develop innovative technical solutions.
- Analyzed new and emerging technologies for researchers to implement.
- Generated and maintained documentation to develop and curate a knowledge base to educate future S<sup>3</sup>s.

### Makerspace Technologist @ Ela Area Public Library

Aug 2016 – Aug 2018 / Lake Zurich, Illinois

- Assisted individuals of all ages in using the Ela Library's makerspace.
- Developed, taught and evaluated a variety of technology and maker programs.
- Researched new and emerging technologies to present to the library director.
- Generated and maintained documentation, reports, and statistics to foster the development of the makerspace.

### Robotics Engineering Intern @ Engis Corporation

June 2016 – July 2016 / Wheeling, Illinois

- Assisted in the operation and maintenance of robotic systems.
- Ensured part quality and consistency throughout the manufacturing process.
- Interpreted data collected during manufacturing for Engis employees.

### Software and Electrical Mentor @ FIRST Robotics Competition

May 2018 – Present / Lake Zurich, Illinois / Team 2358 "Bearbotics"

- Assisted team members with developing **C++** code and designing electrical systems to control a 130lb robot.
- Effectively communicated with other team mentors to create a cohesive curriculum for new members.

## Skills

### Programming Languages

C, C++, Python, HTML, CSS, Javascript, Java, Kotlin, Go, PHP, SQL

### Libraries & Frameworks

TensorFlow, Keras, OpenCV, Node.js, Babylon.js, Bootstrap, ROS

### Tools & Software Applications

Git, Amazon Web Services (AWS), Google Cloud Platform, Heroku, AutoCAD, Inventor, KiCAD, Quartus Prime, Adobe Creative Suite

### Languages

English, Spanish, German

## Organizations

### Cyclone Rocketry

- Avionics Team Member

### Friley Residence Hall Executive Board

- Financial Director

### FIRST Robotics Competition Team 2358

- Software and Electrical Captain

## Projects

### Lifedrinker

**Convolutional Neural Network** (CNN) taught to identify a chosen object of interest at range using a live camera feed in conjunction with a **Python-based OpenCV** tracking algorithm to assist in the detection, identification, and tracking of the target.

### Clark

60 pound semi-autonomous custom designed and fabricated robot running on **ROS**. It uses a variety of sensors and a network of cameras in order to navigate its surroundings.

### Personal Webpage

Built using **Bootstrap**, the website emphasizes a clean and responsive design. It highlights many of my personal projects, and acts as an interactive resume.

### 7Words

Python-based web tool launched on **Heroku** intended to mass lyric check a set of songs. It uses the Genius and Spotify APIs to search through a playlist of songs for language that could go against FCC broadcasting guidelines.