

# Alexis J. Renderos

Program Manager / Software 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
- Code2040 Fellow

## Work Experience

Incoming Software Engineering Intern @ Slack Technologies, Inc.

May 2020 – Aug 2020 / San Francisco, California

Software Engineering Intern / Campus Ambassador @ Collins Aerospace

May 2019 – May 2020 / Cedar Rapids and Ames, Iowa / Active Security Clearance: Secret

- Developed mission-critical software using **C++** for the ARC-210 family of military radios.
- Designed and maintained automated tests in **Python** for regression testing.
- Generated documentation using **PlantUML** to describe key system features.
- Practiced Agile and Scrum in 2-week sprints with a team of 10 developers.
- Represented Collins Aerospace by sharing information and personal experiences with students at Iowa State University and prospective hires.

Assistant General Manager of Broadcast @ 88.5 KURE Ames Alternative

Sept 2018 – Present / Ames, Iowa

- Oversaw all broadcast functions, ensuring the station met FCC requirements.
- Managed a team of 10 directors in addition to 50 DJs and talk show hosts.
- Introduced and implemented **project management methodologies**, including formal milestone-based plans and clear definitions of budgets, targets, deliverables, and priorities.
- Increased station listenership by 150% through the implementation of a comprehensive 5-year plan for station growth and development.
- Worked closely alongside local businesses and prominent community members to develop new strategic partnerships.

Systems Support Specialist @ Iowa State University Biology IT

Feb 2019 – May 2019 / Ames, Iowa

- Worked constructively with researchers 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 train and educate future S<sup>3</sup>'s.

Makerspace Technologist @ Ela Area Public Library

Aug 2016 – Aug 2018 / Lake Zurich, Illinois

- Developed, taught, and evaluated a variety of technology and maker programs.
- Increased technical program participation and attendance by 250% by introducing and developing new, innovative programs to best serve the local community.
- Researched new and emerging technologies to present to the library director.
- Generated and maintained documentation, reports, and statistics to foster the long-term growth and development of the makerspace.

Software and Electrical Mentor @ FIRST Robotics Competition

May 2018 – Present / Lake Zurich, Illinois / Team 2358 "Bearbotics" + Team 3928 "Neutrinos"

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

## Skills

Programming Languages

C, C++, Python, Java, JavaScript, HTML, CSS, Kotlin, Go, PHP, SQL, Verilog, VHDL

Libraries & Frameworks

TensorFlow, Keras, OpenCV, Node.JS, Express, React, Babylon.JS, Bootstrap, ROS

Tools & Software Applications

Git, CI/CD, Jira, Confluence, Bitbucket, Bamboo, Coverity, Android Studio, LaTeX

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

## Awards

HackUIOWA 2019

- Best Use of .xyz Domain

HackISU 2018

- Best Rookie Hack

FIRST Robotics Competition

- 2016-17 Dean's List Finalist
- Innovation in Control Award

## 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.

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.