

# Gia Alexis Garado

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## EDUCATION

### UC Santa Cruz

B.A. Computer Engineering  
Concentration: Robotics & Control  
Expected: June 2022  
GPA: 3.35

### Relevant Skills

Embedded systems  
Assembly language  
Data structures and algorithms  
Discrete mathematics  
Full stack web development

### Technical Skills

Proficient: C  
Familiar: JavaScript,  
HTML, CSS

## WORK EXPERIENCE

### Individual Tutor

April 2019 - Present

Taught concepts involving digital logic, compilation and assembly, computer architecture, and basic computer software and hardware while facilitating a positive, productive learning environment for students

### Engineers Without Borders

#### Treasurer

June 2019 - Present

Managed finances for a non-profit organization committed to undertaking engineering projects that empower and help international communities meet their basic human needs; currently organizing a trip to a small community in Mexico to resolve their energy crisis by installing solar panels on homes

### Slugbotics

#### Systems Programmer

#### Electronics Engineer

September 2019 - Present

Currently building a competitive underwater remotely operated vehicle capable of performing tasks to improve the health of our oceans, such as eel restoration, removing plastic debris, and retrieving sediment samples to analyze for contaminants

### Formula 1/10th

#### Systems Programmer

September 2019 - Present

Currently using LiDAR sensors, PID control, and ROS to create a competitive and fully autonomous racing vehicle

## PROJECTS

### Battleboats

May 2019

Developed a player vs. AI battleship game connected to a Basic I/O Shield that relied on encrypted communication between two 32-bit microcontrollers

### Morse code decoder

April 2019

Developed a program that took user's Morse code button input, converted it to alphanumeric characters, and printed it back on an OLED screen

## REFERENCES

Makayla Renner  
Isabella McCormick

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