

## **JESUS RODRIGUEZ**

Buena Park, CA 90620

(951) 348-1335 | [jesus@rodritech.dev](mailto:jesus@rodritech.dev)

[www.linkedin.com/in/jesusmrodz/](http://www.linkedin.com/in/jesusmrodz/)

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### **PROFESSIONAL SUMMARY**

Aspiring Robotics Software Engineer with a dual academic background in Computer Science (B.S.) and Mechanical Engineering (M.S.) from CSU Fullerton. Passionate about robotics and automation with hands-on experience in full-stack development, embedded systems, and mechanical design. Looking to leverage my interdisciplinary skill set in robotics development that bridges hardware and software.

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### **TECHNICAL SKILLS**

- Programming: C++, Python, Java, MATLAB
  - Robotics & Systems: Embedded Systems, Control Theory, Arduino/Raspberry Pi, Sensors & Actuators
  - CAD & Design: SolidWorks, AutoCAD, Maya
  - Tools & Software: PowerBI, PowerShell, Git, SQL, Unreal Engine
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**EDUCATION M.S. Mechanical Engineering**, CSU Fullerton — In Progress

**B.S. Computer Science**, CSU Fullerton

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### **PROJECT EXPERIENCE**

#### **Autonomous Navigation Rover**

- Developed C++ and Python software for obstacle detection and avoidance.
- Integrated sensor fusion using LIDAR and camera input with ROS (Robot Operating System).

#### **Robotic Arm with Haptic Feedback**

- Designed mechanical arm using SolidWorks.
  - Programmed microcontroller logic for motion control and feedback using Arduino.
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## **WORK EXPERIENCE**

### **Merchandise Lead Host**

*The Walt Disney Company, Anaheim, CA — Oct 2022–Present*

- Provided operational guidance and technology training for internal tools.
- Developed communication systems that improved efficiency and teamwork.

### **Programmer/Analyst**

*The Moore Law Group, Santa Ana, CA — Jul 2019–Mar 2020*

- Created internal portal using SQL and web technologies.
- Documented workflows and optimized inventory and task-tracking systems.