

# Cleiver Ivan Ruiz-Martinez

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**Summary** — Electrical and Computer Engineering major with a focus on robotics and embedded systems, specializing in industrial solutions and providing educational resources.

## Education

### Lipscomb University

*Bachelor of Science in Electrical and Computer Engineering*

*Minors: Applied Mathematics*

## Skills

**Programming** Python (Certified), C++ , MATLAB (Certified)  
**Frameworks** PyTorch, ROS (Certified), Computer Vision  
**Tools** Git, LTspice, CAD, Linux, Virtual Environment

**Research** Technical and Proposal Writing, Open Science (Certified)

## Leadership

**President/Founder FUTURO**, Lipscomb University

**2024 - Present**

**Engineering Ambassador**, Lipscomb University

**2022 - Present**

**Student Leader & Speaker**, Tennessee Campus Civic Summit

**2023 - 2024**

**Youth Fellow**, Tennessee Immigrant & Refugee Rights

**2021 - 2023**

## Experience

### Raymond B. Jones College of Engineering

**May 2024 – Present**

*Robotics and AI Researcher*

- Led a team of five in the 2024 RoboCup Autonomous Robot Manipulation (ARM) Challenge, raising \$6,500 in funding and winning 3rd place in an international competition.
- Member of the Vanderbilt Lab for Immersive AI Translation (VALIANT), contributing to collaborative research projects and investigating artificial intelligence models for motion planning.

### NASA L'SPACE

**August 2023 – May 2024**

*Principal Investigator (PI)*

*Spring 2024*

- Authored key sections of a team proposal addressing NASA's challenges in Flight Computing and Avionics, competing for a \$10,000 award among 35 teams.
- Developed an AI-driven, reconfigurable FPGA proposal designed to enhance the resilience of electronic systems against Single Event Upset (SEU) effects.
- Directed and served as the Primary Reviewer for a review panel, assessing and scoring three proposals submitted during the NPWEE Solicitation.

*Electrical Engineer/Project Manager*

*Fall 2023*

- Co-Authored technical papers for Mission Concept Review (MCR), System Requirements Review (SRR), Mission Definition Review (MDR), and Preliminary Design Review (PDR) for a Discovery-class mission.
- Formulated power system requirements and conducted comprehensive trade studies for each section of the power system.

### MaryFer Construction LLC

**December 2022 - August 2023**

*Construction Assistant Manager*

- Applied 5+ years of trade expertise to manage full-cycle construction projects from planning through completion, ensuring on-time and under-budget delivery
- Drafted professional contracts, memos, and invoices while utilizing bilingual translation skills to facilitate clear client communications

### United Parcel Service (UPS)

**March 2020 - September 2022**

*Building and Systems Engineering (BaSE) PT Supervisor*

*June 2022 - September 2022*

- Monitored conveyor defects, discovering the root cause, and dispatching Specialists/Maintenance Mechanics to resolve system performance issues.
- Managed and communicated daily with 20+ workers ranging from mechanics, operations, and corporate managers to reduce system defects and equipment downtime.

*Warehouse Worker*

*March 2020 – June 2022*

- Safely loaded 10,000+ packages/day onto delivery trucks, while adhering to company safety standards.
- Balanced working 25+ hours/week while attending engineering classes.

## Projects

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### Robotic System Design

- Franka Emika Research 3 Software Suite
- Autonomous Navigate-Collect Robot
- UR5e Robotic Arm Software Suite

### AI Model Design

- 2-Layer Neural Network (Digit Recognition MNIST Dataset)
- PAC-MAN Reinforcement Learning Agent
- DDPG Algorithm for Panda Arm Control
- CNN Classification Network (CIFAR-10 Dataset)

## References

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### Dr. Juan Rojas Suarez del Real

*Assistant Professor of Electrical and Computer Engineering*

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### Alisha Milbry

*BaSE Manager, United Parcel Service (UPS)*

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