

# Jossue Sarango

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## EDUCATION

### New Jersey Institute of Technology

*B.S. in Mechanical Engineering (GPA 3.43)*

*Relevant Coursework: Manufacturing Processes, Design Analysis, Engineering Materials*

Newark, NJ

Aug. 2024 – May 2028

## SKILLS

**Design & Modeling:** SolidWorks, AutoCAD, CATIA (learning), 3D Modeling, CAD Assembly Design

**Programming & Analysis:** Python, HTML, Problem Analysis, Data Analysis, Process Optimization

**Software:** Microsoft Office Suite (Excel, PowerPoint, Word, Teams, Outlook), Data Consolidation Systems

**Languages:** Fluent English & Spanish, Intermediate Portuguese, Elementary Mandarin Chinese

**Affiliations:** Society of Hispanic Professional Engineers, Association of Latino Professionals for America, HISPA

## EXPERIENCE

### Regional Public Affairs Intern

*PSEG (Public Service Energy & Gas)*

June 2025 – Aug. 2025

New Jersey

- **Project Management:** Oversaw electrical substation and 69kV circuit projects, receiving commendations from city mayors for improved data accessibility and response time.
- **Process Improvement:** Designed and implemented automated data consolidation process, improving reporting efficiency by 20% and ensuring data accuracy with cross-functional teams.
- **Problem Analysis:** Collaborated with government and municipal leaders during extreme weather events to develop emergency management communication protocols.
- **Stakeholder Management:** Served as company liaison to elected officials and community leaders for 2.4 million electric customers and 1.9 million gas customers.

### T.E.A.M. Coordinator

*New Jersey Institute of Technology (Educational Opportunity Program)*

January 2025 – Present

Newark, NJ

- **Program Development:** Designed promotional materials and implemented engagement strategies to support retention goals.
- **Cross-functional Collaboration:** Worked with diverse teams to plan, execute, and promote mentorship and career development programs.

## PROJECTS

### Personal – Vehicle Suspension Dynamics Simulator

*Python Programming*

Aug. 2025 – Present

Remote

- **Problem Analysis:** Developed and optimized Python scripts for suspension simulation and performance analysis.
- **Technology Implementation:** Applied algorithmic problem-solving techniques and computational methods for engineering analysis.
- **Testing & Verification:** Created test plans and verification protocols for simulation accuracy.

### Linear Actuator Driven Hand Prosthetic

*14th Annual Innovation Showcase - New Jersey Institute of Technology*

Sept. 2024 – Dec. 2024

Newark, NJ

- **Design & Modeling:** Designed prosthetic hand using SolidWorks, creating detailed CAD assemblies and exploded views for manufacturability analysis.
- **Process Improvement:** Coordinated 3D printing and implemented testing protocols to evaluate performance, identify design flaws, and enhance usability through design iteration.

## LEADERSHIP

### Chassis – Baja SAE

*Baja Society of Automotive Engineers*

Aug. 2025 - Present

Newark, NJ

- **Structural Analysis & FEA:** Perform finite element analysis (FEA) of roll cage frame considering front, side, and rear impact conditions using industry-standard techniques.
- **Design Optimization:** Developed an integrated chassis design incorporating suspension, steering, braking, and powertrain systems, while ensuring structural support for mechanical components to minimize deflection.

### Webmaster, Vice President, Public Relations, & Community Outreach Committee

*Society of Hispanic Professional Engineers (SHPE)*

Sept. 2024 – Present

Newark, NJ

- **Program Management:** Orchestrated 60+ events per semester and implemented strategies, resulting in 200% growth in member engagement for 300+ student members and consistent attendance record improvements.