Jossue Sarango

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EDUCATION

**New Jersey Institute of Technology**  Newark, NJ

*B.S. in Mechanical Engineering (GPA 3.43) Aug. 2024 – May 2028*

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

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** June 2025 – Aug. 2025

*PSEG (Public Service Energy & Gas) 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**  January 2025 – Present

*New Jersey Institute of Technology (Educational Opportunity Program) 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** Aug. 2025 – Present

*Python Programming 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** Sept. 2024 – Dec. 2024

*14th Annual Innovation Showcase - New Jersey Institute of Technology 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** Aug. 2025 - Present

*Baja Society of Automotive Engineers 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** Sept. 2024 – Present

*Society of Hispanic Professional Engineers (SHPE) Newark, NJ*

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