

GUSTAVO LAZO

ELECTROMECHANICAL ENGINEERING TECHNOLOGY – AUTOMATION STUDENT
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[LinkedIn](#) | [Portfolio](#)

PROFILE

Electromechanical engineering student with a strong foundation in electrical systems, automation, and power distribution. Passionate about solving engineering challenges through hands-on work and technical innovation. Adaptable, detail-oriented, and skilled in analytical problem-solving, with strong teamwork and time management abilities. Eager to learn and apply emerging technologies to solve real-world problems, while thriving in team-oriented environments.

TECHNICAL SKILLS

- **Electrical Systems:** PLC programming, Control wiring, Data Acquisition Systems, Motor controllers, DC/AC fundamentals
 - **Mechanical Systems:** Hydraulic/pneumatic troubleshooting, Minor and major maintenance on electrical motors and heavy-duty equipment
 - **Instrumentation and Testing:** Gauge instrumentation, Test benches, Vibration analysis
 - **Software:** Tia Portal, SolidWorks, Autodesk Inventor, Eplan, AutoCAD, SAP B1, Excel, Reporting Tools
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EDUCATION

SENECA POLYTECHNIC, TORONTO Electromechanical Engineering Technology - Automation	2024-2026
TECSUP, PERU Heavy Duty Mechanic Maintenance	2018-2021

WORK EXPERIENCE

STARBIKES Bike Mechanic Toronto, Canada	2024 - Present
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- Assist in diagnosing and repairing electrical and mechanical components of bicycles, e-bikes, and scooters
- Conduct electrical system troubleshooting and battery pack maintenance to ensure proper performance
- Create and modify components by 3D-printing bicycle accessories and mounts
- Perform preventive maintenance and inspections to ensure compliance with safety standards
- Assist customers with technical inquiries, proper use, and maintenance of e-bikes and bicycles
- Contribute to project documentation and process standardization within the workshop environment

- Diagnosed and troubleshooted electrical and mechanical issues in heavy duty equipment, collaborating with other teams
 - Tested electrical circuits and components using multimeters, oscilloscopes, and other diagnostic tools to identify issues
 - Assisted with project documentation and collaborated with stakeholders on maintenance and system diagnosis
 - Conducted inspections of electrical wiring, connectors, and components to ensure compliance with safety and regulatory standards
 - Assisted in conducting risk assessments for new or modified equipment to identify and mitigate potential hazards
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PROJECTS

Theo Jansen Mechanism Controlled by Arduino

- Designed and built a functional Theo Jansen mechanism powered by two servo-shaped DC motors (325:1 gear ratio)
 - Programmed the system using an Arduino Uno to coordinate motor movements for lifelike walking motion
 - Incorporated a step-down voltage module to optimize power supply for smooth operation
 - Developed and tested mechanical linkages for stability and precision
 - Demonstrated strong integration of mechanical design, electronic control systems, and programming skills
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EXTRACURRICULAR & INTERESTS

- Member of the Running Crew at Seneca Polytechnic
- Passion for cycling and e-bike innovation
- Enthusiastic about sustainability and renewable energy technologies
- Enjoys 3D printing and prototyping mechanical parts for personal projects