

Bryan A. Lasso Bravo

Chester, PA • (773) 885-5078 • balassobravo@widener.edu • [linkedin.com/in/bryan-lasso-bravo](https://www.linkedin.com/in/bryan-lasso-bravo)

EDUCATION

Widener University, Chester, PA

MSE in Electrical Engineering

Dec. 2026

Bachelor of Science in Electrical Engineering, magna cum laude

GPA: 3.7

Awards & Honors: 2025 Pennsylvania Society of Professional Engineer Delaware County Chapter Scholarship, Widener University Outstanding Adult Day Student Award (Class of 2025), Dean's list.

TECHNICAL SKILLS

Technology: MATLAB, Simulink, NI Multisim, Ultiboard, Altium, AutoCAD, Falstad, Python, C++, PLC programming, Microsoft Project, MS office, Fusion 360, IA Literacy. Working knowledge of BESS, ETAP, SCADA, Revit.

Language: Bilingual English / Spanish.

ENGINEERING RESEARCH EXPERIENCE

EPIC LAB, *Using 60-GHz Radar Sensing Technology for Road Obstacle Detection*

Research Assistant

Dec. 2024 to Jul. 2025

- Designed and test a 60 GHz radar-based obstacle detection system integrating signal-processing algorithms and RF hardware; improved detection range by 70% when using hyperbolic lenses. Prototyped alignment fixtures in Fusion 360

EPIC LAB, *Compact Waterborne System for Ultraviolet Fluorescence Detection of E. Coli*

Research Assistant

Apr. 2024 to Apr. 2025

- Designed and test a low-power relay–transistor timer circuit to manage high-load optical UV components.
- Developed custom PCBs using Ultiboard, integrating electronics with optical, mechanical, and embedded subsystems.
- Built the ADC signal acquisition stage, converting photodetector outputs to digital data for wireless transmission.
- Published and presented at the 2024 MACC Conference (American Society of Naval Engineers).

ESPOL, *Implementation of Gauss-Seidel Method for Roy Billinton Transmission System (RBTS)*

Final Project

Fall semester 2021

- Developed MATLAB load flow solver for 6-bus 230kV transmission system as part of team project.
- Performed R-X-B analysis, GMD modeling, and Y-bus generation for 9 transmission lines (12kV-230kV), achieving convergence in 79 iterations for bus voltages and power flows.

WORK EXPERIENCE

Graduate Research Assistant, Widener University - Chester, PA

May 2025 to present

- Conducting thesis research on radar and optical alignment systems with precision sensing applications.
- Developing RSS-based distance processing for a 60 GHz radar with hyperbolic beam shaping and alignment mounts to enhance real-time surface non-uniformities detection. First author; manuscript in preparation.
- Representing EE Department to attract and mentor students. Assessed Environmental Eng. coursework for 15 students.

HR Office Assistant, GRC Staffing - Guayaquil, Ecuador

Sep. 2019 – Dec. 2020

- Led digitization of paper records to Excel/cloud systems for 550+ employees, improving productivity and efficiency.

Electrician, Patron Electric SA - Guayaquil, Ecuador

Feb. 2019 – Jul. 2019

- Installed branch circuits, panels/breakers, LED/low-voltage and weatherproof devices, and underground conduit for generator and outdoor needs, executing EMT bends, MC cable runs, terminations, and troubleshooting.
- Interpreted electrical blueprints and applied NEC requirements to size feeders/breakers and update panel schedules.
- Achieved 100% inspection approvals across 3 residential buildings and 1 commercial building expansion.
- Collaborated within a cross-disciplinary project team to deliver scope on schedule and within budget.

LEADERSHIP & PROFESSIONAL AFFILIATIONS

Treasurer & Co-founder, International Students Association (ISA) - Widener University

2023 - 2025

- Cofounded the first International Students Association to promote cultural awareness and inclusion, managed \$400 budget and collaborated with multidisciplinary cross-functional teams to organize campus-wide multicultural events.

Member, IEEE, PES, PELS, AIST, SHPE, ALPFA, Toastmasters International

2024 to present

Speaker: Board of Trustees Spring 2025 meeting, Admitted Students Day, Widener Belonging podcast, panel discussion.