Patrick Benito Eberhard

Email: patrick@fictionalemail.com | **Phone:** +1 (650) 000-0000 **LinkedIn:** linkedin.com/in/patrick-benito | **GitHub:** github.com/patrick-benito

Techburg, Techland 2023 - 2025

Education

Skyline University, MSc in Robotics and Intelligent Systems

• Relevant courses: Autonomous Vehicle Navigation, Advanced Rob	bot Control, AI for Robotics.
Global Tech Institute, Visiting Student	Innovate City, Phosphorus Valley Feb. — July 2023
• Relevant courses: Machine Learning for Robotics, Real-Time Syst	ems, Sensor Fusion for Robotics.
Mountainview University, BSc in Mechatronics EngineeringGraduated with Honors	Techburg, Techland 2019 — 2022
Experience	
Techland Institute of Robotics, Visiting Researcher	Techburg, Techland Feb. – Aug. 2025
 Conducting research on the application of Quantum Neural Net Winters, focusing on enhancing real-time decision-making in dyna Developing advanced control algorithms for flexible robotic arms u model accuracy benchmarks. Designing a cross-disciplinary simulation framework integrating aug contributing to the open-source project <i>TechSim/robotics-sim</i>. 	mic environments. using reinforcement learning techniques, surpassing current
FutureTech Robotics, Robotics Engineer Intern	Innovative City, Phosphorus Valley June – Dec. 2024
 Led the design and deployment of an autonomous warehouse manage cutting operational inefficiencies by 80%. Created a decentralized multi-robot communication platform, imenvironments (Go, Docker). Enhanced sensor calibration systems, developing precision control TensorFlow). 	ement system, using advanced robot coordination protocols, approving task allocation efficiency in high-density robotic
Innovative Research Center, Techland University, Research A	ssistant Techburg, Techland Jan. – Dec. 2024
 Created an innovative motion planning strategy for drone swarms of in unpredictable weather conditions (ROS, Python). Co-authored research on adaptive disturbance suppression techn Journal. Implemented a machine learning-based control system for autonomous disturbance system for auton	niques for robotic arms, published in Techland Robotics
AeroTech Innovations, Software Engineer	Techland, Techland Sept. 2021 – Dec. 2022
 Co-designed and tested a suborbital rocket with an electric project exploration. Demonstrated the project at the <i>TechWorld Expo</i>. Led the software development for the rocket's avionics system, en C++, STM32, RaspberryPi). Developed a data analysis tool for monitoring rocket telemetry, e (Node.js, Grafana, InfluxDB, Nginx). Participated in rocket test flights as a technical lead, ensuring performance. 	pulsion system, reducing environmental impact in space nsuring stability and safety during flight (Matlab, Python, enabling early detection of propulsion issues in real-time
Publications	
Quantum Neural Networks for Autonomous Robotic System J. P. Evans, M. T. Green, R. J. Harris, E. M. Ortega Optimized Control of Soft Robotic Arms: Neural Networks in Holden, R. C. Harris, M. A. Daniels	Under review
Honours and Awards	
Best Paper Award in Robotics and Control, FutureTech Confe	vrence Nov. 2024
Academic Excellence Award, Techland University	Sept. $2023 - 2025$
Outstanding Undergraduate Achievement Award, Techland In	
Best Engineering Project Award, Innovative City Expo	June 2022
Techland National Innovation Award, Techland Innovation Four	ndation 2018–2020

Skills and Interests

Languages: English (Fluent), Techlandish (Native), Spanish (Intermediate), French (Basic)
Interests: Suborbital rocketry, deep-sea exploration, artificial intelligence, autonomous robotics, quantum computing.
Programming Languages: Python, C++, Go, Rust, Matlab, SQL, TensorFlow, PyTorch, ROS 2, Unity, Git, Linux, Kubernetes.