

Jonathan Mehmannavaz

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EDUCATION

Concordia University <i>Bachelor of Engineering in Computer Engineering (Co-op)</i>	Montreal, QC Sep 2022 – Apr 2026
<ul style="list-style-type: none">Member of the Institute for Co-operative EducationRelevant Coursework: Object-Oriented Programming, Digital System Design, Embedded Systems	

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, SQL (PostgreSQL), HTML/CSS, Swift, Bash, VHDL, Assembly

Frameworks/Libraries: TensorFlow, Keras, Scikit-learn, Node.js, Express.js, SwiftUI, Bootstrap, React

Tools/Platforms: Git, Docker, Google Cloud, Power BI, LaTeX, MATLAB, Arduino, FPGA, ARM, PLC, Altium Designer

Certifications: TensorFlow for Deep Learning, Power BI, iOS Development (Udemy)

EXPERIENCE

Co-op Supervisor <i>Pratt & Whitney Canada</i>	Sep 2023 – Dec 2023 St-Hubert, QC
<ul style="list-style-type: none">Led change management initiatives across manufacturing department, reducing non-quality defects by implementing systematic process improvements and employee training programsDeployed RF scanning system and KPI monitoring dashboard, increasing operational efficiency by 15% through real-time tracking and data-driven decision makingManaged team of 12 unionized employees in fast-paced aerospace manufacturing environment, coordinating daily operations, task assignments, and cross-functional collaboration	

PROJECTS

Peer Assessment Platform <i>Node.js, Express.js, PostgreSQL, Bootstrap, Agile</i>	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Architected and deployed full-stack web application enabling peer evaluations for 100+ students, implementing secure authentication, role-based access control, and real-time analytics dashboardLed 7-person development team through 4 Agile sprints, managing backlog prioritization, sprint planning, and continuous integration/deployment using Git workflowsDesigned scalable PostgreSQL database schema with normalized tables, optimized queries reducing page load times by 40%	

Autonomous Hovercraft System <i>Arduino, C++, MATLAB, SolidWorks, Embedded Systems</i>	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Engineered autonomous navigation system using ultrasonic sensors, PID control algorithms, and real-time obstacle avoidance, achieving 90% success rate in competition trialsPerformed CFD analysis in SolidWorks to optimize lift fan design, increasing thrust efficiency by 25% while reducing power consumptionDeveloped embedded C++ firmware with interrupt-driven sensor fusion and motor control, processing 50+ sensor readings per second	

Deep Learning Projects <i>TensorFlow, Keras, Scikit-learn, Python, Google Colab</i>	Dec 2024 – Jan 2025
<ul style="list-style-type: none">Built and trained 5+ neural network architectures for regression, classification, and time series forecasting, achieving 92% accuracy on computer vision tasks using CNN modelsImplemented NLP sentiment analysis model using RNN/LSTM networks, processing 10,000+ text samples with 88% accuracyApplied transfer learning with pre-trained models (ResNet, BERT) to accelerate training and improve model performance	

LEADERSHIP & ACTIVITIES

Regional RSEQ Champion – Football Team "Les Sphinx" (2017-2019): Gold and silver medal winner

International Solidarity Trip – Guatemala (2019): Built infrastructure and organized activities for underserved communities