

# JEREMY DUBÉ

CEP, Software Developer

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## EDUCATION

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### Bachelor of Electrical Engineering (Co-op)

2021-2025

Université de Sherbrooke

- Artificial Intelligence Specialization

### Electrical Engineering Technology College Diploma

2018-2021

Dawson College

- Networking and Computer Systems

## TECHNICAL SKILLS

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Programming languages (>2 years): JavaScript, React, Python, SQL, CSS, C++, C#, HTML

Frameworks & web tools (>2 years): Electron, REST APIs, Node.js, .NET

Tools & Platforms: Git, Docker, Unity, CI/CD, DevOps, VHDL, Virtual Box, PostgreSQL

Operating Systems: Windows, Linux, Mac

Languages: Bilingual (English/French)

## PROFESSIONAL EXPERIENCE

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### Full-Stack Developer (intern) – 3IT, Sherbrooke

Summer 2025

- Develop a desktop application using electron
- Design the application architecture and integrate real-time APIs
- Configure a PostGIS database for spatial data management
- Integrate interactive world map for drone path planning

### Backend Software Developer (intern) – 3IT, Sherbrooke

Fall 2024

- Develop an MPPT algorithm to optimize dual-axis solar panels efficiency
- Create an SQL database for solar data collection
- Analyze the energy performance of photovoltaic systems

## **PROFESSIONAL EXPERIENCE (CONTINUED)**

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### **Software Developer for Avionics Systems (intern) – CAE, Montréal**

Winter 2024

- Develop and debug C++ code for flight simulators
- Design unit tests to improve software reliability
- Validate functionalities on physical simulators
- Estimate time requirements for new projects

### **Electrical Circuit Designer (intern) – GE Aviation, Bromont**

Summer 2023

- Program PLCs to ensure robotic station safety
- Configure FPGA boards for image capture and encoding
- Design electrical schematics for robotic equipment
- Assemble electrical panels from custom circuits

## **STUDENT INVOLVEMENT**

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### **Council Director – Engineering Student Social Events**

Summer 2025

- Organize student events
- Manage inventory and maintained supplier relations
- Supervise the team during event operations

### **Logistics VP – Oktoberfest UdeS**

2024

- Coordinate logistics and supervise a multidisciplinary team
- Manage event setup and planning

## **SCHOOL PROJECTS**

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### **Micromouse Robot (University)**

Winter 2021

- Manage an electrical team in designing a miniature autonomous vehicle
- Implement visual performance analysis software
- Develop motion control for an autonomous vehicle

### **Full-Stack Project (College)**

- Design a smart bird feeder
- Develop an interactive website with live video streaming
- Built and deploy a Linux-based backend server