

# Jeremy Ouellet

## Experience

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**2019-05 - Software Developer and Systems Administrator**

**Present**     *AYE3D*

Leads efforts to refactor legacy codebases and develop new software and drivers for the AYE3D Freedom24 Display. Develops and maintains demo Unity applications for sales outreach under the direction of the CEO. Spearheaded a successful migration between languages and off of unsupported libraries. As a sysadmin, responsible for all company server assets through the full lifecycle, from specification and purchasing through setup and maintenance. Manages the company's internally hosted version control system (gitea).

**2018-05 - Electronics and Software Consultant**

**2019-05**     *Freelancing*

Designed and produced custom electronics and software solutions, including a distributed mesh of temperature and humidity sensors for agricultural and apicultural use. Procured and installed security solutions for both commercial and industrial use. Diagnosed and performed board-level repairs on Mac and iPhone motherboards.

**2019-02 - Electronics Consultant**

**2019-10**     *Electro-Techno*

Performed reverse-engineering on damaged or malfunctioning industrial system controllers to isolate and repair faults, including for legacy systems where no documentation or other support pathways existed. Debugged Windows Embedded installations, including proprietary and undocumented software. Wrote custom software to allow a new repair revenue stream for recalibration and restoration of train control interfaces.

**2017-01 - Engineering Technician**

**2017-03**     *SCIREQ*

Performed quality assurance and quality control operations on medical research devices in compliance with corporate policy. Drafted updates to corporate policy to ensure high rates of reliability. Performed diagnostics and repair on RMAed products. Assisted in product calibration and manufacturing as required.

**2016-06 - Electronics and Programming Technician (short-term contract)**

**2016-07**     *Science and Nature Museum*

Designed the electronics and co-designed the audio-visual effects for the CASCADE 2017 award winning "Mondes de la nuit" exhibit. Maintained and repaired existing exhibitions, including bringing them into code compliance.

*Further employment history available on request.*

## Education

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2014-08 - Centre 24-juin  
2016-05 DEP: Electronics, finished 7 months early  
2013-09 - Cégep de Sherbrooke  
2013-12 Automation and Robotics course.  
2008-08 - Mitchell-Montcalm School  
2013-06 DES: Natural Sciences 4 and 5, Chemistry.

## Personal Info

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Montreal, H3X 2S3  
QC, CANADA

### Phone

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### E-mail

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## Skills

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Diagnostic and Repair  
Linux and Windows System Administration  
PCB Design  
Perfectly Bilingual  
Reverse-Engineering  
Self Taught  
SMD Soldering

## Software

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Autodesk Fusion 360  
Autodesk Eagle  
Git  
KiCad  
NextCloud  
Unity

## Languages

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Bash  
C/C++  
C#  
Python  
VB.NET

## Conferences

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2019 DEFCON  
2019 BSides Vegas  
2019 Northsec + CTF  
2019 HackFest  
2018 DEFCON  
2018 Northsec + CTF  
2018 HackFest  
2017 DebConf