



**JONATHAN DE BELLE**  
GRAD. ELECTRICAL ENG.

## ABOUT ME:

First and foremost, I am a problem solver. Professionally, I strive to make a positive difference by solving problems related to the world of programming and serious gaming. On a personal level, I find great interest in solving problems from a wide variety of fields, even if I can only provide a partial solution that others can build upon.

## PROFESSIONAL SKILLS:

C/C++	<div><div></div></div>
C#	<div><div></div></div>
Unity	<div><div></div></div>
Node JS	<div><div></div></div>
LAMP Stack	<div><div></div></div>
Blender	<div><div></div></div>
HLSL	<div><div></div></div>
Mathematics	<div><div></div></div>

## CONTACT ME:



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## EXPERIENCES:

### Co-founder and CTO

Jan 2017 - Present

### Aperium Technologies Inc

Develop hardware and software for a variety of interactive trade-show experiences as well as for the company's flag-ship product, the K-01 VR treadmill.

- High-level C# game-logic and programming
- C/C++ Drivers for communication with external hardware
- Code self-optimization through reflection/emission of IL
- Advanced redirected walking algorithms
- Render pipeline & shader design (HLSL, GLSL & Cycles)
- Net-code for multiplayer experiences
- Book keeping, pay, patent application & team coordination.

### Technical Lead

Dec 2013 - Dec 2016

### Thought Technology Inc

Team lead to develop medical hardware and embedded software for bio-potential encoders. These devices were to be used in conjunction with the company's suite of PC software tools.

- Coordinate a team of hardware and software developers
- Software architecture and programming (C & Java)
- PCB layout and design (OrCAD & Altium)
- Electrical engineering (Analog Front-End, MCU/SRAM, TENS)
- Ensure that medical standards are met (60601, 62304, ...)

### Assembly Technician

May 2009 - Sep 2011

### MPB Communications

Develop hardware and software test tools to accelerate and automate the assembly process as well as improve the overall quality of final assemblies.

- Design hardware for the purpose of measuring optical signals
- Write embedded code (C/C++) for PIC MCUs
- Write and test UI and control software (Java)
- Reverse engineer equipment to build custom automation tools.

## ACADEMIA:

### Electrical Engineering

Sep 2011 - May 2015

### École Polytechnique de Montréal - 3.75/4.0

During my time at Polytechnique, I was very involved with Esteban, a solar car project, and I directed the embedded programming laboratory during my last year of study.

### Computer Systems

Sep 2008 - May 2011

### Collège Gérald Godin

Having an early passion for electronics and programming, I pursued a college program that allowed me to do both. The computer system's program allowed me to get early hands-on experience.