

# PHILIPPE VIBIEN

Greater New York Area  
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## SKILL SUMMARY

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<b>Computer Languages</b>	C#, C++, Java, Python, PHP
<b>Protocols &amp; APIs</b>	REST, MQTT, Thrift, Kafka
<b>Embedded Platforms</b>	ARM M4, Espressif ESP8266, AVR Family
<b>Databases</b>	SQLite
<b>Software Tools</b>	Matlab, Keysight ADS, KEIL MDK, GNURadio, Visual Studio
<b>Languages</b>	Fluent English and French, Basic Spanish
<b>Citizenships</b>	USA, Canada, France

## EXPERIENCE

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**Bersak Engineering Consulting** 2017 - 2018  
*Electrical Engineering Consultant* New York, NY

- ◊ Provided **engineering advice and services** to several technology and design firms throughout the New York City area. Clients included: ApprenticeFS, Auto I, DogParker, Leadoff Studio and McCann.
- ◊ Performed **fault finding and troubleshooting** on existing electrical and software systems. Used findings to redesign sub-systems and improve maintenance practices. Worked with manufacturing partners to incorporate design changes into future production runs.
- ◊ Responsible for **embedded software development** and the layout of **printed circuit boards** on various projects. Sourced required components and established supply chain relationships.
- ◊ Worked with clients to outline project requirements and possible design solutions. Assisted in the creation and assembly of **demonstration prototypes** used to illustrate functionality.

**GuardBot** 2012 - 2017  
*Electrical Engineer* Stamford, CT

- ◊ Designed a **Command & Control (C2) protocol** for a new series of robotic vehicles. Wrote a corresponding Interface Control Document (ICD) and software tooling to allow implementations to be tested against the specifications.
- ◊ Worked with management and engineering team to develop manufacturing plans, drawings and procedures for a **small volume production** run of robotic vehicles. Refined quality control procedures and designed sub-assembly and final assembly task procedures.
- ◊ **Oversaw subcontractor performance** on PCB design, control systems software development and manufacturing of parts, managing results and incidents.
- ◊ Contributed to several BOM's, RFP's, RFQ's, white papers, proposals and system specifications for various vendors and government agency customers, such as the US Army, the US Navy and DHS.

## EDUCATION

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**University of Waterloo** April 2021  
Master of Applied Science (MAsc), Electrical & Computer Engineering

**University of Waterloo** 2013 - 2019  
Bachelor of Applied Science (BAsc), Honours Electrical Engineering

**Boy Scouts of America** 2012  
Eagle Scout