# Valentin TRIMAILLE

Maker • Electrical and Computer Engineering Graduate student

**Portfolio:** *crackedopenmind.com* • **Email:** valentin.trimaille@gmail.com

## Education

*2014 – now* — Georgia Institute of Technology (Atlanta, GA – USA)

**MS** in Electrical and Computer Engineering – Graduating in December 2015

- Specialization in **Systems and Controls:** linear systems, optimal control & **Circuit design.**
- **GPA**: *4.0*
  **Mentored project**: NASA Wearable haptics for navigation.
- **Personal projects**: Self-balancing business card, LED coffee table, Motorized longboard, Magnetic Mjölnir.

*2012 – 2014* — Supélec, Ecole Supérieure d'Electricité (FRANCE)

**BSc** in Electrical Engineering and Computer Science

*Grande école: extremely selective higher education establishments with competitive entrance examinations.*
*Diplôme d'ingénieur: five-year degree specialized in Electronics and Computer Science.*

- **Coursework**: Transmission lines and wave propagation, Semiconductor devices, Analog circuits, Algorithmic, Systems and Controls, Digital systems fundamentals and architecture, RF electronics.
- **GPA**: *4.0*
- **Mentored projects**: Super Hexagon bot, Nano-satellite electronic power system.
- **Personal projects:** Capacitive LED wristwatch, Quadcopter.

*2010 – 2012* — Technological Institute of Annecy (FRANCE)

**DUT** in Electrical Engineering and Industrial Computer Science

*Two-year university and technology degree*

- **Coursework**: Analog and digital electronics, Power electronics, Control, Signal processing, Industrial software development, FPGA programming
- **Honor** & **Excellence Award**: Top of the class over the full two years and vice-president of the Students' Council.
- **Mentored projects:** Quadcopter from scratch, Magnetic sphere levitation.
- **Personal project:** Segway-like skateboard.

## Work Experience

*May 2015 – August 2015* — Formlabs, Boston, MA (USA)

*Intern in Electrical Engineering*

I worked autonomously as well as in team to develop solutions to various electrical and non-electrical issues, tested their effectiveness and integrated the most adapted in preproduction prototypes, in collaboration with all the engineering departments. Controls, analog circuits, embedded programming, and capacitive sensing.

*July 2013 – August 2013* — Rolex S.A., Geneva (SWITZERLAND)

*Intern in the Research department, Special Equipment service*

Design, development, tests and publication of a web-based activity management application. Automatic export from the former website. Diverse works on electronic projects and tasks.

*April 2012 – June 2012* — Adept Technology France, Annecy (FRANCE)

*Intern in Electrical Engineering and Industrial Computer Science*

Study and tests of a new ultra-precise piezoelectric drive motor.
Development of real-time software blocks embedded in a surgeon-assisting collaborative medical robot project: implementation of a UPS communication protocol.

## Skills

**Programming:** C (AVRs, PICs, ARM, MSP), C++, Python, Java, VHDL, Matlab.
**Software:** Matlab/Simulink, Eagle CAD, Altium, ADS, SolidWorks, MPLAB, Arduino, CCS, Eclipse.
**Languages:** French (native speaker), English (proficient), Japanese (basic knowledge), Spanish (working knowledge).

## Personal activities

**Associative involvement:** Prototyping Instructor at Invention Studio at Georgia Tech. Vice-president of the Students' Council during my undergraduate (team of 8 students, budget of 5,000€). Accountant for the Electronic Club.
**Sports:** Squash, Mountain bike, Krav Maga, Utlimate Frisbee.
**Photography**