

Boston, USA

Cadence Design System

July - September 2017

- Software Engineer Intern.
- Design and implementation of a Physics based engine to solve multiple optimization problems in EDA.
- Reached and improved performance of existing designs. A team was selected to further develop the project.

TEACHING

Universidad Anáhuac Querétaro **Introduction to Computer Security** **January 2024**

- Created and taught a hacking workshop to four different student groups over the course of 3 weeks. The students learned fundamentals in mathematics, computer science, electronic and security to prepare them for a final challenge where they had to extract a long password from an Arduino using a timing side channel attack.

MIT **6.S060: Foundations of Computer Security** **Fall 2021**

- Helped create the class. Designed and implemented every labs and part of the course material with Derek Leung, including a protocol verification tool to auto-grade the labs. Gave weekly recitations and held office hours. Taught by Srinivasa Devadas, Yael Kalai, Nikolai Zeldovich and Henry Corrigan-Gibbs.

AWARDS AND PRIZES

- **2023** MIT Graduate Student Change-Maker Award.
- **2020 - 2022** Google Fellowship Program in Trustworthy Computing.
- **2016** 3rd price of the Sopra Steria - Institut de France Foundation Price. Development of a device to monitor elders' health. A first step to make home hospitalization more accessible.
- **2014** French National Baccalauréat with distinction. - Special mention from the Jury. Average : 19.5/20.
- **2010** Award winner of Life & Science Junior - « Innovez » competition. Guitar amplifier emulator on a mobile phone. Youngest winner of the year and prize of a thousands euros for further research.

LEADERSHIP AND MENTORING

Mentor and Supervisor **MIT Math & CS PRIMES Program** **Spring 2021 - Present**

Graduate students mentor high school students to do research in CS over several years. Over the last year, I've worked with Rachel and taught her basic computer architecture, cryptography, complexity theory and the required mathematical foundations. We then started working on trusted hardware and virtual assets. We've developed a prototype and are now close to submit our work to a conference.

Mentor and Supervisor **MIT UROP Program** **Fall 2020 - Present**

Top undergrad students engage in grad-level research projects. I am helping Jack and Miguel to develop various new attacks on operating systems and have already got one paper accepted.

Board Member and Social Chair **MIT-EECS THRIVE** **Fall 2020 - Present**

An association of students from the EECS department that advocate for Diversity, Equity, Inclusion and Mental Health. We've developed several initiatives and collaborations with internal and external actors.

Mentor **MIT-EECS GAAP Program** **2020 - Present**

Graduate students help students from all over the world and from underrepresented backgrounds to apply for graduate school in the US. I've been mentoring three students over the past two years.

CODING EXPERIENCE

- Bare metal programming - Low-level System Programming - Competitive Programming - Hardware Programming.
- Proficient in C, C++, Assembly Code (RISCV, ARM, X86), Java, Python, Blue Spec, Verilog, System C.

OTHER SKILLS AND INTERESTS

- **Sports and Occupations:**

Former ballet dancer at the National Conservatory of Brittany.

Currently swimming, running and learning Muay Thai and Brazilian Jui-Juitsu.

I also enjoy practicing photography, cooking and studying Queer, Gender and Women studies at MIT.

- **Languages :**

French: Native | English: Bilingual | Spanish: Advanced.