

# Samuel Elliott Sheehy

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## Languages

English

Native

French

Native

Spanish

Intermediate

**Nationality** France and USA (Dual)

## Highlights

- ❖ I have been working in the **energy** industry for two years, and I now want to transition to robotics.
- ❖ My first degree gave me a thorough understanding of **mechanical** and **thermal** systems.
- ❖ My postgraduate degree is teaching me **high performance** and **scientific programming**.
- ❖ In 2014, my team and I won our robotics class's **Eurobot**-style competition.
- ❖ In 2017, I designed and built the **electronics** and **data collection** for an electric motorbike.
- ❖ I use **Python** extensively at work, often implementing the **Numba**, **Pandas** and **Bokeh** libraries.
- ❖ I know **C++** from university projects and courses.

## Education

2018 – 2020 **MSc Scientific Computing**, University College London, London, UK

*Courses: Techniques of High Performance Computing; Research Software Engineering with Python; Research Computing with C++; Numerical Methods; Numerical Optimisation; Information Retrieval and Data Mining; Software Engineering.*

2013 – 2017 **MEng Mechanical Engineering**, University of Southampton, Southampton, UK

*Theme for Year 3 and Year 4: Sustainable Energy Systems - First Class Honours*

*Year 3 Individual Project: "On the Use of Wi-Fi Signal Strength in Indoor Navigation"*

*Year 4 Group Project: "Design and Manufacture of the Powertrain for an Electric Motorbike"*

- ❖ Founding member of student chapter, *Engineers Without Borders Southampton*
- ❖ General Coordinator for local music and sustainability fair, *Environmental Rock*

2010 – 2013 **French Baccalaureate**, Rochambeau French International School, Washington, DC, USA

*International Option - Science Curriculum - Mention Très Bien (i.e. With Highest Honours)*

**Rochambeau Award of Appreciation** for extensive participation in school activities

## Work Experience

2017 - **R&D Development Scheme**, EDF Energy, Greater London, UK

Ongoing Working as a Junior Research Engineer while studying part-time.

- ❖ *Develop cost and energy models for electric vehicles and photovoltaics (Python)*
- ❖ *Research and report on the state-of-the-market for technical topics and innovations*
- ❖ *Run frequent tutorials to train colleagues in coding and software development*

2016 **IT Volunteer**, King Chavez Academy of Excellence, San Diego, California, USA,

- ❖ *Rewrote 3 web-apps from pure Google Script to HTML/JavaScript/Google Script*
- ❖ *Self-taught JavaScript and HTML over the 6 weeks of my stay*

2014-2015 **Activities Leader and Duty Manager**, St Giles Juniors Summer School, Southampton, UK

- ❖ *Prepared and led activities for children attending the school to learn English*
- ❖ *Taught beginner ballroom and swing dance*
- ❖ *Assisted camp managers with administrative duties, student and staff inductions*

**Interests** - swing dancing, science-fiction, hiking, dogs