

Samuel Elliott Sheehy

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Languages

English	Native
French	Native
Spanish	Intermediate

Nationality France/USA (Dual) with UK Settled Status

Highlights

- ❖ My first degree gave me a thorough understanding of **mechanical** and **thermal** systems.
- ❖ My part-time graduate 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++** and **OpenCL** 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; Computational and Simulation Methods.
- 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