Samuel Karet

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Graduate,
Imperial College London.

Biomedical Engineering MEng graduate with wide ranging interests including R&D and medical devices. Proficient with CAD, Python, C++, MATLAB, soldering, and prototyping.

Employment History:

Cytera CellWorks – August 2020 – November 2020

Assembly Engineer - https://cytera.bio/

- Assembled consumable products for clients, and prepared components for non-consumable devices.
- Designed and assembled specialised consumables for internal use.
- Amended existing documentation and produced new documentation for consumable products.

Imperial College Bioengineering Department – October 2018 – January 2020

Outreach - http://www.imperial.ac.uk/bioengineering

- Represented the department of Bioengineering of Imperial College London.
- Presented Q&A session for prospective students and manned the department's information stand on university open days.

Bnei Akiva UK – July 2016 – December 2019

Camp Technical Organiser - https://www.bauk.org/

- Held role on 6 summer and winter camps, which were 3 weeks and 2 weeks long respectively.
- Ensured safety and cleanliness onsite, arranged and led off-site hikes, and ensured fire safety measures were adhered to.
- Assisted in preparation and serving of meals for 300 campers and managed the tuck shop.
- Ensured technical equipment was set up and working in the right places at the right times.

MahiGaming – September 2019

2-week Internship - https://mahigaming.com/

- Updated risk mitigation plan documentation.
- Worked on system to integrate risk mitigation documentation into task tracking software (Jira). Required learning some database theory and SQL.
- Shadowed leader of the Marketing Readiness and Logistics team in inter-disciplinary team meetings and learnt about the design process of video games.

Imperial College Advanced Hackspace – June 2019 – September 2019

Hackspace Helper - https://www.imperial.ac.uk/enterprise/students/advanced-hackspace/

- Built, fixed, upgraded, and maintained a variety of 3D printers.
- Taught inexperienced members how to use equipment.
- Prepared circuitry and electronic component kits for outreach programs.
- Provided general help and support to the hackspace's members.

Education:

Imperial College London, London, UK

Sept 2017 – June 2021

MEng, Biomedical Engineering, 2:1.

Yavneh College, Borehamwood, UK:

A Levels: June 2017

Maths: ***A***, Further Maths: ***A***, Physics: ***A***

GCSEs: June 2015

10 GCSEs A*- C including Maths and English.

Interests & Projects:

- President of Imperial College Jewish Society.
- Publicity officer for and avid member of the Imperial College Robotics Society.
  - Robotics 101 instructor.
- 2nd Year Project – FES bike pedal designed and built using CAD, programmed with Python to give real time performance feedback.
- 3rd Year Project – Produced a library of synthetic biological toggle switches using a variety of in silico and in vivo synthetic biology methods and techniques.
- Final Year Project – Volumetric Infrared Imaging System (VIRIS) for the monitoring and diagnosis of breast cancer related lymphoedema. Involved the design and manufacture of the device prototype, as well as production of an app for user interaction, coded in MATLAB.
- 3D printing, drone, and robotics hobbyist.