

Thomas Penny

MEng Chemical Engineering

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Recent Heriot-Watt University graduate, receiving 1st class M.Eng Chemical Engineering degree. Highly organized, responsible and well-versed in a range of programming languages, CAD, and other software. Management experience throughout degree and work history. Interested in languages, particularly Turkish and Spanish. Passionate about technology. Visit my website: <https://thomaspenny.github.io/>



Education

2015-09 - 2020-06 **M.Eng: 1st Class Honours: Chemical Engineering With Oil And Gas Technology**

Heriot-Watt University - Edinburgh, United Kingdom

Research:

- Exploration of Nucleation Mechanism using sodium chlorate: Developed new experimental methods for chiral symmetry breaking.

Design Projects:

- Sustainable Data Centre Cooling: Innovative design of floor layout, modeling of airflow using CAD, piping and air-conditioner design, and energy efficiency. Data analysis using python and fluid modeling.
- Sustainable Dye Production: Proposed sustainable process for value-adding dye, including equipment design, solvent recycle and waste-water treatment, all to relevant ISO 9001 standards.

2009-08 - 2015-05 **Secondary Education**

Stromness Academy - Orkney, United Kingdom

Total UCAS Tariff Points: 321

SQA Advanced Higher

- Grade A: Maths, Chemistry, Physics

SQA Higher

- Grade A: Maths, Chemistry, Physics
- Grade B: Geography, English
- Int 2: French



Work History

2017-06 -

Dining Room Staff

2019-08

French Woods, Hancock, New York

- Assistant Manager, in charge of diverse group of international staff, communicating in Spanish and English.
- Implemented new procedures which resulted in improved efficiency and safety.
- Ensured deliveries were accounted for correctly on daily basis.
- Maintained levels of hygiene and presentation of team and facilities.

2017-02 -

Election Agent

2017-05

Harald Tobermann, Edinburgh, Scotland

- Launched social media and made plans based on data analytics from previous elections..
- Organized, reviewed and filed paperwork and financial expenditure for secure record-keeping.

2014-06 -

Research Intern

2014-08

Heriot-Watt University, Orkney, United Kingdom

- Studied carbon dioxide fluxes between atmosphere and ocean using various predictive and empirical models.
- Developed abilities in handling and analysing data.
- Exhibited work at Nuffield Celebration Event in Edinburgh.



Interests

Languages: Spanish, Turkish

Reading: History, Economics

Others: Piano, Cycling

Programming: C, Python, SQL, Lua, HTML, CSS and Js