

# 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. To find out more, visit my website: [URL HERE](#)



## 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