

CURRICULUM VITAE

A Mechanical Building Services Engineer with experience delivering HVAC, public health, and MEP design solutions across commercial and residential projects. My work spans load calculations, ventilation system design, piping layouts, and compliance with CIBSE standards and building regulations, using tools including Revit, AutoCAD, Hevacomp, TAS, and OpenBuildings Designer.

Alongside my engineering career, I have developed a strong foundation in software development. Utilising practical skills across Python, JavaScript, React, PHP, SQL, HTML, and CSS, I have completed two full-stack development projects. I have a deep interest in exploring the application of software and artificial intelligence within traditional engineering fields, particularly where technology can streamline technical workflows, improve design quality, and create real efficiency gains in traditional engineering fields.

PERSONAL DETAILS

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CODING TRAINEESHIP

IT Career Switch Ltd
Coding Traineeship – Full stack developer
1-year program

During the traineeship I had to demonstrate a very competent level of the following programming languages and technical skills

- HTML5, CSS3, JavaScript
- PHP, SQL, React, jQuery
- Python, Node.js, Bootstrap
- Command line Git, Github
- Remote API access

ADDITIONAL TECHNOLOGIES:

- Redux, Hyper-V, Citrix

DEVELOPMENT EXPERIENCE:

Below are the two briefs of development projects I completed with IT Career Switch which can be found in my bio: <https://kasimuozeto.co.uk>

Portfolio Project #1: “Gazetteer”

The specification was to reply to a website specification for a map-based app to provide information on countries, with a focus on a “mobile-first” development. Preferably using a framework, to then develop HTML, CSS and JavaScript with JQuery modules that use PHP server-based components to source data from third-party APIs (Geonames, OpenWeather). The solution is assessed on its delivery to specification, functionality, and usability.

Portfolio Project #2: “Company Directory”

A more rigorous reply to this specification was required as a user requirements document was needed to be prepared which, when signed off, triggers the release of SQL allowing to develop a “mobile-first” application to maintain a company personnel database (MySQL). Sign off is only achieved upon the student supplying an independently witnessed document providing confirmation of the system’s ability to perform error-free.

CAREER HISTORY:

Apr 2025 – Present

POSITION HELD:

S. I. Sealy & Associates.

Assistant Mechanical Engineer

- Designed HVAC and public health building services systems, ensuring compliance with CIBSE, building regulations and energy efficiency standards.
- Created technical engineering designs conveyed in drawings and schematics.
- Undertook Site Surveys to aid in design accuracy.

Apr 2024 – July 2024

POSITION HELD:

McCann & Partners

Intermediate Mechanical Engineering Consultant

- Produced calculated engineering designs for ventilation and public health systems in existing and new builds using AutoCAD and Revit, based on Load calculations obtained using TAS and Hevacomp.
- Collaborated in teams to tackle and solve arisen design and process problems
- Liaised with installers on building site and multidisciplinary teams to achieve the perfect designs and ensure correct installation
- Liaised with Electrical contractors to produce efficient and effective designs for both Mechanical and Electrical services
- Attended and represented design team at client meetings to give progress updates, advise on necessary design changes, and discuss next steps and actions on project board
- Produced progress reports for numerous projects throughout building and installation stage
- Gave team briefs on project updates
- Collaborated in teams to produce designs more efficiently

Sep 2022 – Dec 2023

POSITION HELD:

Adaptive Cooling Ltd

Junior Mechanical Design Engineer

- Produced calculated engineering designs for ventilation and public health systems in existing and new builds using AutoCAD, based on Load calculations obtained using OpenBuildings Designer and its predecessor, Hevacomp
- Collaborated in teams to tackle and solve arisen design and process problems
- Liaised with installers on building site to achieve the perfect designs and ensure correct installation
- Liaised with Electrical contractors to produce efficient and effective designs for both Mechanical and Electrical services
- Attended and represented design team at client meetings to give progress updates, advise on necessary design changes, and discuss next steps and actions on project board
- Produced progress reports for numerous projects throughout building and installation stage
- Gave team briefs on project updates
- Collaborated in teams to produce designs more efficiently

Jul 2022 – Sep 2022

POSITION HELD:

Virgin Media

Customer Retentions Support Agent

- Managed customer service tickets
- Troubleshoot network and router issues/bugs for customers remotely
- Performed broadband diagnostic checks to fix faults
- Maintained relationships with customers and offered technical support services over the phone
- Managed customer contracts, including offering deals, discounts and bill clarification
- Maintained a customer retention rate above performance target (92%) by offering, preparing and sending out new contracts
- Briefed team regarding goals, tasks and stats
- Liaised with other departments to solve specific and unique customer enquiries and issues

Jun 2021 – Feb 2022

POSITION HELD:

Xchangebox Solutions

Youth Corps

- Acquired foundational knowledge and skill in Python programming language and the basics of web programming (HTML, CSS and JavaScript)
- Assisted in creating interactive forms and tables for web pages on the company admin website
- Collaborated with the team on projects workflow

Jul 2020 – Sep 2020

POSITION HELD:

Amazon

Warehouse Operative

- Stowed and transported items from docks
- Stored and ordered goods in arrays

Sep 2019 – Feb 2020

POSITION HELD:

Ark M&E

Junior Mechanical Design Engineer

- Tasked with designing Mechanical building service systems (hot and cold water systems, LTHW systems, as well as air duct systems) based on engineering calculations using software such as but not limited to Autodesk Revit and AutoCAD
- Liaised with Architects and Façade specialists to produce efficient and effective designs
- Attended and Representing design team at client meetings to give progress updates, advice on necessary design changes, and discuss next steps and actions on project board
- Produced progress reports for numerous projects throughout building stage

EDUCATION:

2016 – 2019

Swansea University

BEng Mechanical Engineering (*GPA: 3.0*)

2015 – 2016

Global International College

International Degree Foundation Programme Mechanical Engineering

2015

Galaxy International School

Eight WASSCEs (*Grade: A – B*)