Timothy Jabez Newman

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SUMMARY

Highly motivated engineering student with interest in energy, finance and software sectors. I am a highly curious individual, passionate team player and enjoy solving problems with creative solutions.



Projects

Analog Music Synthesizer | 2021

1st Year Group Project (Best project in category)

- · Created and simulated an 88-key analog music synthesizer in LTSpice
- · Considered the product design specifications, costs, power consumption and waveform quality
- · Created a Python program to transcribe frequencies from a CSV file to piece-wise voltage level directives in LTSpice for testing

LtSpice





Optiver TraderCraft | 2021

2nd Placed Team in simulated trading competition

- · Created a Python trading algorithm and competed with other teams to make highest profit
- · Was selected to attend Insights Days program

Python

Algo Trading

Personal Website | 2021

Static website with content management system

- Created website from scratch using GatsbyJS for the front-end and Strapi.io for the content management system
- · Optimized layout and images for different screen sizes
- · Setup continuous deployment on Netlify and Heroku from Github

ReactJS

Strapi.io

NodeJS

Netlify

Heroku Github

SKILLS

Programming: Python, HTML, CSS, Javascript, C++, SQL

Tools: WordPress, Microsoft Excel, Word, PowerPoint, Autodesk Fusion 360 and LTSpice,

Other: Version Control, Web, Deep Learning

Languages: English (native), German (elementary), Por-

tuquese (elementary)



Electrical and Electronic Eng | 2020-2024

- · Masters, Imperial College London
- · 2nd Year ongoing; Modules: Power Electronics and Power Systems, Circuits and Systems, Signals and Systems, Electromagnetism, Mathematics
- 1st Year overall grade: 74.31%; Modules: Programming for Engineers, Analysis and Design of Circuits, Digital Electronics and Computer Architecture, Mathematics

International Baccalaureate 41/45 | 2019

- · Anglo-Chinese School (Independent), Singapore
- HL Math 7, HL Physics 7, HL Chemistry 7



Online Courses

IBM Fullstack Cloud Developer Cert | 2021

- · Completed 10 courses on various Application Development and Cloud technologies
- These include "Introduction to Containers w/ Docker. Kubernetes and OpenShift", "Python for Data Science, Al and Development", "Developing Applications with SQL, Databases, and Django" and "Application Development using Microservices and Serverless"

Deep Learning Specialization | 2020

· Completed online course on the basics of Deep Learning including CNNs, RNNs, hyperparameter tuning, optimization and structuring ML projects

Yale Financial Markets | 2020

· Completed online course on introduction to finance taught by Dr Robert Shiller

ACTIVITIES / INTERESTS

- Technology Associate at IC InvestmentSoc
- Webmaster and Equipment Officer at IC AstroSoc
- · Violinist at IC Sinfonietta Orchestra and pianist with ABRSM grade 7 Piano
- · EE department peer tutor
- Tutor for GCSE and A Levels maths on EasyA App