Wiktor Wiejak

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EDUCATION

University of Exeter	Sep 2022 – Jun 2025
*Bachelor of Science in Computer Science	First Class Honours in first year*	*Exeter, Devon*
Kew House School	Sep 2020 – Jun 2022
A-Levels Mathematics (A)	Computer Science (A)	Further Mathematics (A)	Physics (A)*	*Brentford, London*

EXPERIENCE

A Denotational Semantics of Solidity in Isabelle/HOL — June 2023 – August 2023
University of Exeter — *Exeter, Devon*
- Wrote proofs for a wide range of problems using Isabelle/HOL
- Researched and developed a tool for monitoring the usage of semantics in open source solidity smart contracts
- Used docker to create a proof of concept container for k-framework github repository
- Created an automatic test generator by converting solidity contracts into Isabelle/HOL to conform to my supervisor's (Dr. Diego Marmsoler) model

Startup Initiative — Sep 2022 – Present
MySoc ltd — *Exeter, Devon*
- Identified an issue with university society organisation and decided to act by creating a centralized platform
- Hosted meetings and collaborated as a team contributing 28K+ lines of code to our github code base
- Pitched our idea as part of the pre-incubator and incubator programme receiving funding from both competitions
- Pitched our idea to Maggie Scott (CEO) and Ben Sadler (COO) of Principle One and discussed the best next steps

VOLUNTEERING

Exeter Computer Science Society — Jun 2023 – Present
University of Exeter — *Exeter, Devon*
- Arranged workshops and talks for the students. Examples include flutter, 8-bit computer, revision session
- Managed the creation of the Hack South West Hackathon from web design to sponsor searching
- Facilitated students with a platform to submit their projects for a chance to get featured by the society

Departmental Officer — Aug 2023 – Present
University of Exeter — *Exeter, Devon*
- Actively maintain communication channels open between students and the department
- Presented to a cohort of over 200 students forming an identity for the departmental officer position
- Participated in meetings and training courses for this position

PROJECTS

Neural Network From Scratch — Jun 2020 – Sep 2021
Hobby — *Brentford, London*
- Coded a neural network from scratch, successfully trained it with the mnist dataset applying it to coursework

Road Sign Detection Ai — Sep 2019 – Jun 2020
Kew House School — *Brentford, London*
- Investigated Yolo-v3 architecture and wrote parts of a convolutional neural network and wrote a paper about it

Formula 24 Racing Data Logging — Sep 2015 – Jun 2021
Extra Curricular — *Brentford, London*
- Transmitted data from a racing car to the pit lane using technology such as lora and esp32

8-bit Computer Build — Aug 2023 – Present
Hobby — *Exeter, Devon*
- Learnt and currently assembling an 8-bit breadboard computer using online resources
- Running sessions for students to cooperate and understand in depth the workings of such a computer

TECHNICAL SKILLS

Languages: python | java | js | ts | php | solidity | isabelle | haskell | c-family | html
Tools: docker | github | latex | nginx | apache | azure | flutter | react | nextjs | angular | grafana | arduino | esp32