Philip Keenan

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Personal Profile

DCU Applied Physics BSc graduate. Keen interest in computer programming, problem solving, data analysis & technology. Experience working as part of a team & individually in a delivery-driven environment. Experience working with large datasets, completing in-depth analysis and reporting conclusive findings. Hoping to pursue a career in technology and problem solving.

Education & Qualifications

2016–2021 **BSc (Hons) in Applied Physics, 2.1** **Dublin City University**

- Modules include: Advanced Programming, Digital & Analogue Electronics, Physics of Renewable Energy, & Statistical Physics.

- Final year results include: Computational Physics - 75%, Final Year Project - 77%, Quantum Electronics - 80% & Plasma Science and Technology - 56%.

- Final Year Thesis: Accelerated Ageing of Novel Transparent Conducting Oxides:
- Programmed a virtual machine using LabView to record data from a PCIe card.
- Integrated this virtual machine into a larger, pre-existing machine to improve functionally and overall use.
- Carried out extensive data analysis on obtained data in order to produce results and conclusions.
- Maintained a detail log of adjustments made to virtual machine, problems encountered & solutions.
- Delivered a presentation detailing my findings, conclusions & future prospects.

2010–2016 **Leaving Certificate (CAO Points: 415)** **St. Aidans C.B.S**

- Technology (H) – B1, Physics (H) – C3, Maths (O) – A2.
- Designed, constructed, programmed and documented an animatronic object as described in the Leaving Cert Technology Project Brief.

Skills & Projects

IT Skills

- Proficient with Python, Numpy, Matplotlib & LaTeX.
- Familiarity with Linux Shell, SSH, Matlab & Labview.
- Experience working with fundamentals of HTML, C++, JavaScript, Java & Databases.
- Skilled with Microsoft Excel, Word and PowerPoint.

Laboratory Experience

- Weekly lab reports, with strict deadlines, which included extensive research of the underlaying physics and equipment to be used.
- Extensive use of Python for data manipulation and representation.

Projects

- Research Paper on Atomic Layer Deposition in relation to its use in the semiconductor industry.
- Computational experiments of real world systems utilising techniques to test and debug code.
- Arduino controlled clock interface.

Work History

February 2020 - September 2020 **Software Developer Internship, Pilot Photonics**

- Constructed extensive Databases for use within GUIs.
- Further developed functionality of an existing GUI through the addition of graph generators and linking inputs to Databases.
- Tested, debugged & documented issues within existing computer code.
- Worked towards delivery of new GUI for clients.

2016–2020 **Sales Assistant, Penneys, Mary Street, Dublin**

- Working in a fast-paced environment, developing time management skills and providing a high-quality service to customers.
- Maintaining my work area, floor stock levels and communicating with managers and supervisors.
- Attention to safety on the shop floor.
- Handling cash, complying with money procedures such as spot checks and cashing up tills at the end of the day.

Voluntary Work, Achievements & Interests

1st Dublin L.H.O.

- Beaver Scout Leader, Rover Scout, Council Member, Treasurer & Quartermaster.
- Organised multiple trips including hikes, camps and over-night hikes.
- Book keeping skills and subscription collection each week.
- Basic first AID training and safety knowledge.

Achievements

- Secretary of DCU Weightlifting club.
- Former President of St. Aidan's Student Council.
- Sionnach Adventure badge as part of Scouts.

Interests

- Avid reader of novels, non-fiction science & "teach yourself" books.
- Member of DCU Weightlifting Club.
- Established hiker.
- Irish rugby fan.

References

Available on request.