

DAVID JOHN NEILL

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EDUCATION

2016-2019 Trinity College, Dublin - Masters in Electronic and Computer Engineering (Completion date 2021)

Year one and two examination results – **First Class**

Year three – **current 2:1, results pending and could move to First Class**

Engineering Modules studied include: Electronic/Electrical, Design, Mechanical, Mathematics, Computer Science, Chemistry, Physics, Computer Networks, Digital Circuits, Systems Design, Data Structures and Algorithms in C++

2009-2016 Down High School

A Level June 2016 Mathematics (A*), Technology & Design (A*), Physics (B), Further Mathematics (B),
AS Level June 2015 Chemistry (B)

EMPLOYMENT

Rockwell Collins – Mechanical Engineer – July 2017:

- Solved problems when they arose on the production line through the use of CAD and JIGS

Holiday Home Manager 2015 – present:

- Crucial role in management of holiday home, including managing service staff, meeting and greeting, being on call to fix problems. Allowed me to improve key skills such as communication and problem solving.

Agricultural Labourer 2010 – present

- General maintenance to include fencing, cutting weeds, hedge cutting, water supply. Working, thinking and acting independently to solve day to day issues on the farm.

TECHNICAL SKILLS

- C++/C Intermediate/ Advanced (my main coding language)
- Data-structures/Algorithms Intermediate/ Advanced
- App building (Java) Beginner/Intermediate
- Machine Learning and Deep Learning (Python and R) Intermediate
- Verilog Intermediate
- Arm Assembly Language beginner/intermediate
- Linux beginner/intermediate
- Matlab beginner/intermediate (not used on a regular bases)
- Kotlin beginner
- CAD – SolidWorks, AutoCAD
- Multi-Sim

GitHub Profile:

<https://github.com/Johneill>

LinkedIn Profile:

<https://www.linkedin.com/in/david-john-n-002b4b98/>

Online Courses Undertaken:

Machine Learning A-Z (Udemy)
Deep Learning A-Z (Udemy)
Complete Android Oreo Developer Course

AWARDS AND ACKNOWLEDGEMENTS

- Finalist in Intel Employability Award **2019**
- Full UK STEM Ambassador in connection with W5 Belfast **2019**
- Selected for Huawei Seeds of the Future Program, travelling to China in **August 2018**. Only ten students selected from Ireland. This involved learning Chinese and work experience at Huawei, Beijing and Shenzhen.

- Awarded the Google Europe Scholarship **2017** – This award was made to only 10 students from Europe, based on their strong academic background, communication and leadership skills and passion for computer science and Engineering. (Note – during my final A level year I had malaria which profoundly affected my educational examination preparation for several months.)
- Received an interview for St John’s College, **2016** Cambridge.
- Received The Intel Award For Sentinus Young Innovators Overall Winner 11-19 (age 15), from 300 entries **2014**
- Achieved a 4th place Grand Award in the Electrical and Mechanical Engineering Category at the International Intel Science and Engineering Competition in Los Angeles, May **2014**
- Received a Gold Crest Award **2013**, presented by the British Science Association.
- Generation Innovation STEM ambassador, giving presentations and attending all events
- Travelled to Pittsburgh to represent UK at the International Broadcom MASTERS event
- At the UK Science and Engineering competition in March **2012** I was awarded: The Young Engineers for Britain Best Project aged 11-14.
- Overall UK Junior Winner for Engineering and Technology
- First UK student to be chosen, to represent the UK in the Broadcom MASTERS International Delegates event in Pittsburgh.
- Awarded the Sentinus NI Young Engineers Overall Winner for Technology and Engineering 11-19 (Age 13) for my research project “Keycall” and also received the First Derivatives prize for the product with the most commercial potential.

STEM INTERESTS

- Judge – UK National Science and Engineering competition and at Sentinus Young Innovators Ireland **2017-**
- Down District Inspiring Youth Award **2015** for work with STEM and motivating young people to study STEM related disciplines.
- Awarded the Dermot Curran Young Achievers Award for inspiring and working with young people.
- Interviewed as part of The Inventor’s Showcase at Make it Digital NI event at the BBC for innovative entrepreneurs. This involved TV interviews, presentations and talking with professionals and the public.
- Completed a week long Engineering Head Start program at Bristol University in LVI in **2015**

VOLUNTEER EXPERIENCE

- Travelled to Uganda in **2015** and to Kissanto, in Romania in **2014** as part of a Mission team
- Maths/ICT mentor for students **2014 – present**.
- Judging or mentoring at various National Engineering competitions – UK and Ireland **2016 - present**

OTHER INTERESTS AND EXPERIENCES

- Represented Irish Universities in National Athletics at 1500m 2017. Finished 3rd.
- Finished second in the NI Senior Math’s Team Challenge Final 2015
- Grade 5 music theory, Grade 6 Trumpet and Grade 3 Piano.
- Received Queen’s Badge. This is the highest award that can be gained in the Boys’ Brigade. This included voluntary work in the local community, responsibility for and working with young people in the church youth club, planning and executing expeditions.
- I am a member of the IET, British Computer Society and Engineers Ireland.
- I enjoy all types of sports-I enjoy soccer, skiing, golf, tennis and running where I am DUHAC track captain 2017 and 2019

REFERENCES

Dr. Michael Brady

Senior Lecturer in Computer Science

Trinity College Dublin

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