Robert McConnell

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github.com/AlbertFaust
albertfaust.com

I am currently studying Electronic and Computer Engineering in Dublin City University.
I am passionate about technology, fixing broken things and learning.

Education

2014-Present	**Dublin City University** *Electronic and Computer Engineering*
2008-2014	**Belvedere College SJ** *Secondary Level Education*

Experience

Summer 2015 — **Intern, Performance Engineering Laboratory** - Dublin City University, Dublin.
Built a new website using HTML, CSS and Javascript with the Bootstrap framework for the Performance Engineering Laboratory. Improved the design and user experience of the site by restructuring the navigation and updating the outdated style using the scrollspy.js Bootstrap plugin and some Javascript. The new site is also responsive to different screen resoloutions unlike the old site.

Summer 2015 — **Technician, Compliance Engineering Ireland** - Dunshaughlin , Meath.
In CEI I was exposed to different types of EMC testing and learned a lot about them. I worked alongside experienced engineers who were able to teach me how the products we were testing worked and to ensure they met the standards for each test. Some of the tests I performed include radio emissions, radio immunity, conduction emissions, static testing and radio tests.

February 2012 — **Intern, Graffiti Design** - Fairview , Dublin.
During my time in Graffiti Design I assisted in the backing up of their databases after a computer crash. It provided valuable technical experience and showed me how to work in a constantly changing, creative environment that lacked usual business structure.

Accomplishments/Interests

- Experience in C/C++ and Java. (Software Development - Class rank: 1 of 170, Grade: 95%)
- Comfortable with various Linux distributions and the Command Line.
- First Year Representative of Redbrick, DCU's Computer Networking Society.
- Mentor in DCU CoderDojo teaching programming to kids. (HTML, CSS and JavaScript)

Projects (My other projects can be seen on my GitHub at *github.com/AlbertFaust*)

Wallpaper to Theme - Java
A program that generates a terminal colour scheme from a wallpaper.

- Implements 'Lloyd's Algorithm' and 'K-Means Clustering' to determine the dominant colours in an image.

Gravity Assist Simulator - C++/OpenGl
A gravity assist (slingshot) simulator written in C++ and using OpenGl. [Work in Progress]

- Will use 'real physics' applying Kepler's Laws and Newtonian Gravitation to simulate gravity assists.

References

Available upon request.