Colin Crowley

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Personal Profile

I am a final year Electrical and Electronic Engineering student at NUI Galway. I am an ambitious individual who is productive, diligent and self-motivated. I am professional, meticulous and disciplined in my approach to work yet I have great passion and energy in carrying out my work and delivering to meet deadlines. I enjoy anything that involves innovation, technology or design and I am always up for a challenge.

Education

2013-2017	**Bachelor of Engineering (Electronic and Electrical)**	NUI Galway

3rd year modules:
Grade: expecting a 2.2
Electromechanical Power Conservation, Programming III, Analogue Systems Design II, Digital Systems II, Communication Signals and Systems, Signals and Communications, Communication Systems Engineering, Professional Skills, Electrical & Electronic Engineering Discipline Professional Experience Programme, Project Management for Engineers.

2nd year modules:
Grade: pass
Fundamentals of Electromagnetic Theory, Digital Systems, Electronic Instrumentation and Sensors, Microprocessor Systems, Thermodynamics and Fluid Mechanics, Programming II, Mathematics and Applied Mathematics I, Mathematics and Applied Mathematics II, Electrical Circuits and Systems, Analogue Systems Design.

1st year modules:
Grade: 2.2
Graphic, Design, Computing, Mechanics, Fundamentals of Engineering, Physics, Calculus, Chemistry, Mathematical Methods.

Second year project:

Microprocessor Project:
For this team based project, an Arduino was used to create an "electric flute" which could assist the user in playing pre-programmed tones as desired and could alter the pitch by rotating the instrument.

First year project:

Robotics Challenge:
An Arduino based system (Polulu 3pi) was programmed to complete three tasks: light following, line following and balancing on a see-saw.

2008-2013	**Leaving Certificate**	Kilrush Community School

Subjects
DCG(A2), Art(B2), Chemistry(B3), Math(C2), French(D1), English(D2), Irish OL(B2).

Positions Held

2016 - Date	**Software Developer**	Valeo Vision Systems

Currently I work in the Research & Development department in Valeo Vision Systems.

Below is some of the tasks I've carried out:
o   Developed Project Release document tool for extracting SVN documentation and populating MS Excel spreadsheets
o   Source code reviews
o   Python in-house automation software tool for the correction of source code format
o   CRC calculator (using gcc C windows app used by ICT) for product serial numbers
o   Ethernet SatCam Testing
o   Documentation using MS Office, Google Drive and requirements tools (DOORS)
o   Experience in configuration management, test tools and hardware is part of most tasks

o   Programming Languages used : Python, Batch, C#, C, JavaScript

2014 - Date	**Retail Sports Assistant**	Central Sports

- o Liaise with sale representatives
- o Build relationships with and advise customers on choices
- o Manage all cash transactions and issue of vouchers
- o Design material to upsell products
- o Research the performance of clothing and equipment that comes into the store
- o Deal with any returns

2014 – Date	**Retail Assistant**	Mace

- o Cashier
- o Stock management
- o Liaison with suppliers
- o Maintain hygiene to national standards
- o Trusted with security and cash management
- o Work in Deli
- o Deal with customer issues

2013 – 2014	**Bartender**	Kilkee Bay Hotel

- o Event management
- o Maintain hygiene of bar and hotel accommodation
- o Bartend alone for large occasions such as communions to discos
- o Stock minerals, alcohols and spirits
- o Hotel accommodation

Volunteer Work

2015 - Date	**Fitness Coach**
2014 - 2015	**Engineering Class Rep**
2012 - Date	**Royal National Lifeboat Institution**
2011 - 2013	**Red Cross Treasurer**

Skills

Problem Solving: Exhibited innovation skills to improve the performance of both the pasta bridge and motorized truck design projects.

Computing: Proficient at Python, C, Java, MATHLAB, Batch and just started VHDL programming. I also have long standing experience in AutoCAD, SolidWorks and MS Office.

Teamwork: Developed the ability to work efficiently and effectively as part of a team through my involvement volunteering with the RNLI. This involved working as part of a small competent team under high pressure, clear communication of instruction and confidence in my team members to do their duties also.
I also played Gaelic football at both local and county level.

Communication Skill: Excellent written and oral skills developed through writing technical reports for university projects, second level technical reports and studying higher-level English at Leaving Cert.

Leadership:
Team leader on each of the projects I have been involved with. This involved delegating the work, ensuring all team members fulfilled their tasks on time etc.

Achievements

- o Gaisce Bronze Medal
- o K'nex Challenge 2007 National Qualifier (Recognized by STEPS engineering)
- o 55th Texaco Children's Art Competition Special Merit
- o Community Indoor Soccer County Winners
- o Schools U15s Munster Finalists
- o Schools U15s County Winners
- o County Minor B Winners
- o U16s Munster Shield Inter-County Final Winners

Reference

Martin Glavin   Lecturer Above The Bar BE, PhD. NUI Galway   martin.glavin@nuigalway.ie