

## Experience

- **Carbon Coop** Remote  
*Full Stack Developer* April 2019 – Current
  - Working on the OpenDSR project to develop an aggregated demand side response system
  - Working with product owners to add features and improvements to the MyHomeEnergyPlanner building assessment tool
  - Developing open source systems in Python and Django
  - Developed a smart meter data viewing application as part of the Carbon Coop Hub
- **KPS Energy (Kite Power Systems)** Glasgow  
*Broad scope Engineer working across software and mechanical departments* Feb. 2017 – Mar. 2019
  - Joined KPS as a Software Engineer based with the Flight Operations team
  - Worked on the flight control and simulation system in the Scala programming language
  - Worked on a number of software projects, including hardware/software integration, integration of autopilot and simulation environments
  - Liaised with academic partner and travelled to German university to supervise flight testing
- **Beaufort Research, UCC** Cork, Ireland  
*Research Assistant - LEANWIND* Sept. 2016 – Feb. 2017
  - Worked on the LEANWIND Offshore Wind project
  - Continued development of legacy financial modelling tool in MATLAB and Excel
- **OnePageCRM** Galway, Ireland  
*Web Application Developer* Feb. 2014 – Sept. 2015
  - Developed new features and improvements to the OnePageCRM web application using Ruby on Rails, MongoDB
  - Maintained the public API and working with the mobile team on new API features
  - Automated and maintained testing with RSpec using Agile & Continuous Integration methodologies
  - Maintained the Developer portal and communicating with integration partners
  - Maintained and improving the large legacy codebase
  - Agile project management, including leading the weekly team retrospective meeting
  - Regular support responsibilities, both to technical and non technical customers
  - Writing for the developer blog at [developer.onepagecrm.com/blog](http://developer.onepagecrm.com/blog)
- **VisualID** Dublin, Ireland  
*Web Application Developer* June 2012 – Feb. 2014
  - Worked in the small DevOps team to support and improve the Visual ID Digital Asset Management application
  - Managed production and development servers - CentOS, OSX and Ubuntu.
  - Supported the customer services team with worldwide clients. This includes back end database queries, scripting and researching communication tools
  - Identified the need to standardise the application front end to reduce developer workload and undertook a front end redesign
  - Championed a company wide move to modern project management and source code management tools. This improved the issue tracking and project management workflow and dramatically improved communication within the company

## Education

- **University College Cork** Cork, Ireland  
*Marine Renewable Energy (MEngSc)* *Sept. 2015 – Sept. 2016*
  - Key Courses: Wind Energy (81%), Ocean Energy (74%), Sustainable Energy (77%), Environmental Impact Assessment (74%), Offshore Exploration (59%), Tidal Energy (65%), Marine Renewable Energy (82%), Mechanical Systems (75%), Computational Fluid Dynamics (60%), Solar Energy (66%), Coastal Engineering (83%)
- **Dublin City University** Dublin, Ireland  
*Graduate Diploma in Information Technology; Credit* *Sept. 2011 – May 2012*
  - Key Courses: Object Orientated Programming, Information Systems, Networking and Operating Systems, Database Design, Web Design
- **National University of Ireland - Galway** Galway, Ireland  
*Bachelor of Engineering (Mechanical); Second Class Honours, First Grade* *Sept. 2003 – June 2007*
  - Key Courses: Finite Element Analysis, Polymers and Composites, Mechanical Engineering Design, Fluid Dynamics, Thermodynamics, Engineering Computing

## Skills

**Programming Languages:** Python, Ruby, Javascript

**Tools and Operating Systems:** Linux (Ubuntu, CentOS), Virtualization (VirtualBox, Xen, Vagrant), Git

**Web Development:** HTML/CSS, Django, Ruby on Rails

**Engineering Software:** AutoCAD, Autodesk Inventor, Solidworks, ANSYS Fluent / CFX, Maxsurf, ArcGIS

**Office Software:** Atlassian Jira / Confluence, LibreOffice, Latex, Google Apps

## Interests and Volunteering

**Community Band:** I play Tenor Sax with Brass, Aye? a Glasgow based community street band

**Volunteer Lifeboat:** I volunteered as a crew member with Sligo Bay RNLI lifeboat for two years. I attended weekly training and was on call 24/7.

**Adventure Sports:** Strong interest in sailing, kitesurfing, kayaking, sea swimming, rock climbing.

**Boat building:** Wooden boat building - I built a racing dinghy using plywood and composites and competed in a world championships.

**Programming Mentoring:** I volunteered as a coach with Rails Girls Galway, teaching a group of novice programmers the basics of web development.