

## Education

- **University College Cork** Cork, Ireland  
*Marine Renewable Energy (MEngSc)* Sept. 2015 – Sept. 2016
  - Key Courses: Wind Energy, Ocean Energy, Tidal Energy, Marine Renewable Energy
- **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* Sept. 2003 – June 2007
  - Key Courses: Finite Element Analysis, Polymers and Composites, Mechanical Engineering Design, Fluid Dynamics, Thermodynamics, Engineering Computing

## Experience

- **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. This includes co-located, private cloud (Xen Virtualisation) and public cloud (Rackspace) servers
  - Assess customer requests and add features to the development schedule
  - Support 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
  - Organised monthly software release and deployment cadence
  - 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
  - Regular blog contributor to the company website
- **Decisions [D4H]** Dublin, Ireland  
*Technical Internship* Oct. 2011 – May 2012
  - Worked as part of the development team as a web developer using the PHP CodeIgniter framework and git version repository, releasing production code to the marketing site, [decisions.d4h.org](http://decisions.d4h.org)
  - Using the Assembla issue tracking application, performed testing in Internet Explorer 6-9, building bug reports for the development team to fix; issues ranged from low priority to critical
  - Tasked to build a product specification for an international missing persons database. Completed a comparison grid of requirements for compatibility with an international standard

- Search engine optimisation of the organisations main marketing website by improving metadata
- Improved its inbound leads and conversion rate by testing over 1000 keywords on 50 new Google text ads

## • Self Employed

Sligo, Ireland

### *Tourism Businesses*

*Sept. 2007 – Sept 2011*

- Opened the top ranked hostel in Sligo with two partners before selling my share
- Opened and ran the second largest kitesurfing centre in Ireland, LSD Kiteboarding
- Opened and ran a sailing school, Rosses Point Sailing

## • Abbott Vascular

Galway, Ireland

### *Engineering Internship*

*Apr 2006 – Aug. 2006*

- Completed regular preventative maintenance on the four production lines
- Worked on equipment calibration and validation
- Supervised the stent production line; responsible for assessing and implementing variations in production process in response to any production anomalies reported to me
- Responsible for ordering and installing equipment for a new production line

## Skills

**Programming Languages:** Ruby, Javascript, Coffeescript, Python, PHP, Java, Lasso. Also some experience with Fortran and C during my Bachelor of Engineering

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

**Web Development:** HTML/CSS, jQuery, ReactJS, Ruby on Rails

**Databases:** MongoDB, MySQL

**Web Applications:** Jira, Bitbucket, Github, Wordpress, Drupal, Codeship

**Engineering Software:** AutoCAD, Autodesk Inventor, ANSYS CFX

**Office Software:** LibreOffice, Latex, Google Apps

## Engineering Project

**CFD Analysis of Microfluidic Mixing Devices:** For this project I studied the microfluidics of mixing devices using computational fluid dynamics (CFD). This involved modelling a number of designs using 3D CAD software and using the ANSYS CFX software package to analyse the behaviour of fluids flowing through them. This was my final year project for my Bachelor of Mechanical Engineering.

## Interests and Volunteering

**Watersports:** Strong interest in sailing, kitesurfing, kayaking, sea swimming

**Boat building:** Wooden boat building - I have built canoes and racing dinghies

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

**Volunteer Lifeboat:** I volunteering with Sligo Bay RNLI lifeboats for two years