Peter Armstrong

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Experience

- **KPS Energy (Kite Power Systems)** — Glasgow
  Broad scope Engineer working across software and mechanical departments   Feb. 2017 – Current
  - Joined KPS as a Software Engineer based with the Flight Operations team and soon qualified as a Flight Director
  - Simplified flight test operations to reduce the need for a software engineer and moved to Flight Sciences team in Glasgow office
  - Worked on the legacy 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
  - Took lead on the hardware integration, assembly and initial testing of a newly designed flying device
  - 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

- **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
  - 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
  - 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

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: Ruby, Javascript, Coffeescript, Python, PHP, Java, Lasso, Scala, C++, PLC Programming

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 / MariaDB

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.