Peter Armstrong

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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 GradeSept. 2003 – June 2007

 Key Courses: Finite Element Analysis, Polymers and Composites, Mechanical Engineering Design, Fluid Dynamics, Thermodynamics, Engineering Computing

Engineering Projects

Stability of Vessel for Launch and Recovery of Tidal Energy Device: My Masters project regarded the stability of operations and maintenance vessels for a tidal energy device.

CFD Analysis of a Tidal Turbine Blade: I modelled a section of a tidal turbine blade using ANSYS Fluent. I compared the results with results obtained from Blade Element Momentum analysis.

Measure Correlate Predict for weather data: I wrote a simple python script to analyse weather data as part of a wind energy assignment. I focused on clarity of code and documentation of methods when writing this script. The code is available on Github.

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.

Experience

Minesto

Portaferry, Northern Ireland

Masters Placement

May 2016 - August 2016

- Placed with tidal energy company in their R&D site for Masters project

OnePageCRM

Galway, Ireland

 $Web\ Application\ Developer$

February 2014 – September 2015

- Worked with the team to develop new features and improvements to the product
- Agile project management, including leading the weekly team retrospective meeting
- Regular support responsibilities, both to technical and non technical customers around the world
- Implemented and maintained automated testing
- Improved communication with industry partners

- Wrote for the technical blog at developer.onepagecrm.com/blog

VisualID Dublin, Ireland

Web Application Developer

June 2012 - February 2014

- Worked in the small team to support and improve the Visual ID web application
- Championed a company wide move to modern project management tools. This improved the project management workflow and dramatically improved communication within the company
- Managed production and development servers on call 24/7
- Assessed customer requests and added features to the development schedule
- Supported the customer services team with clients worldwide
- Standardised the application to improve the product and reduce developer workload

Mullaghmore Sailing Club

Sligo, Ireland

Activity and Maintenance Manager

June 2010 - August 2011

- Maintained a fleet of boats and set up new preventative maintenance measures
- Completed boat repairs using fibreglass, epoxy and wood
- Managed a team of 15+ staff, supervising 40+ students per week
- Ran training to upskill staff and dealt with any disciplinary issues
- Revised operating procedures to improve compliance with teaching and safety standards

Self Employed

Sligo, Ireland

Tourism Businesses

September 2007 - September 2011

- Opened and ran the top ranked hostel in the area
- Opened and ran a sailing and kitesurfing school

Skills

General IT Skills: Strong IT skills with an ability to quickly lean new software packages. Experienced with LibreOffice, MS Office, Latex, Google Apps .

Computer Programming: Experience with many different programming languages, including Python, Ruby and web development languages.

Engineering Software: Familiar with engineering software including AutoCAD, Autodesk Inventor, Solidworks, ANSYS Fluent / CFX, ArcGIS, Matlab.

Data Analysis: Experience with databases and data analysis tools.

Interests and Volunteering

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.

Sea Scouts: Leader with 3rd Sligo Sea Scouts. Managed a boat building project with the troop.