



# Dan Casey

## Energy | Automation | Software | Engineer

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I combine a degree in Energy Engineering, experience as an Automation Engineer and a diploma in Full Stack Software Development, to provide a complete sensor to cloud system integration service.

### SKILLS

- System Integration
- PLC Programming
- SCADA Development
- Electrical & Instrumentation
- Installation & Commissioning
- Network Communication
- System Troubleshooting
- Energy Systems
- Web Development
- Database Management
- Data Analysis
- Data Visualisation
- Dashboards
- Version Control
- Responsive Design
- Integrated Testing

### TECHNOLOGIES

- SCADA - InTouch, System Platform, Visu+
- PLC - Siemens, Phoenix Contact
- Ethernet, Modbus TCP/Serial, OPC
- AutoCAD
- Linux & Windows OS
- Python - Flask, Django
- JavaScript - jQuery, D3, DC
- HTML5, CSS - Bootstrap
- Git - Github
- Heroku
- MySQL, PostgreSQL, MongoDB

### EXPERIENCE

**Tidal Energy Automation Engineer** *April 2018 - July 2018 (4 months)*

**OpenHydro, Greenore, Louth, Ireland**

Contract role developing and implemented PLC and SCADA test scripts for submerrissible tidal turbine control centre. Short contract the result of the closure of OpenHydro.

- **Software Testing** of functional control logic after development of test scripts
- **Electrical Panel Testing** for all control functionality before installation to skid
- **SMS Alarm Callout Set Up** for remote deployment

**Technical Sales** *Jan 2017 – Dec 2017 (1 year)*

**Monod's Sports, Banff, Canada**

- **Sales and Product Information** on technical climbing and ski equipment.

**CHP Automation and Electrical Engineer** *Jan 2013 – Aug 2015 (2 years 8 months)*

**NeoDyne, Little Island, Cork, Ireland**

Worked as part of a small, hands-on team of engineer's, primarily involved in Combined Heat and Power (CHP) plants and energy control systems.

- **SCADA Data Troubleshooting** of CHP steam and electrical systems to identify faults and inefficiencies.
- **PLC & SCADA Design and Commissioning**

**Wind Energy Engineer** *May 2011 – Sep 2011 (5 months)*

**Assets Development Division, Bord Gáis Energy, Cork, Ireland**

- **Wind Resource Analysis** using Windfarmer to identify potential site development
- **VBA Application Development** for project document control

### EDUCATION

**Full Stack Software Development - Diploma 2018 - 2019**

**The Code Institute, Ireland** *First Class Honours, 1.1*

**Energy Engineering - Hon. Bachelor Degree 2008 - 2012**

**University College Cork, Ireland** *Second Class Honours, 2.1*

**Leaving Certificate - End of School Exam 2003 - 2008**

**St. Brendan's College, Killarney, Co. Kerry, Ireland** *540/ 600 points*