

Curriculum Vitae

PRIMARY INFORMATION

Name: David Connolly
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PERSONAL PROFILE

Determination, focus, and dependability are the cornerstones of my success to date. A successful and diverse education which includes agriculture, engineering, physics, and energy is evidence of my ability to adapt to changing environments.

Similarly, I have a wide range of work experience which includes farming, carpentry, bartending, waitering, moving furniture in New York City, industrial engineering within a medical devices multi-national corporation, teaching children, University lecturing, and the supervision of student projects.

Throughout my experiences to date, I have demonstrated excellent communication and networking skills – resulting in effective collaborations with both academic institutions and industry professionals alike. Examples of this include my very positive partnership with Aalborg University Denmark in my PhD research, the commercialisation of my research and communicating my results on academic, competitive and media platforms. This was rewarded when I received the ‘Early Career Researcher Award’ at the Globe Forum 2010 conference.

Over time, this variety of experience has developed my ability to lead and self-develop, which has been demonstrated by the successful completion of my PhD and the publication of numerous academic journal papers, conference proceedings, and a book chapter.

EDUCATION

- 2007 to 2011: Doctor of Philosophy
Integration of fluctuating renewable energy using energy storage, University of Limerick, Ireland.
Key outputs from this work included 2 commercialised pieces of software, 6 papers in refereed international journals, 3 papers in international proceedings, 7 reports, and a book chapter.
- 2009 to 2010: Advanced Certificate in Agriculture
- 2003 to 2007: B.Eng, First Class Honours (QCA: 3.92 out of 4)
Bachelor of Engineering in Mechanical Engineering, University of Limerick, Ireland
- 1998 to 2003: Irish Leaving Certificate (545 points out of 600)
Received while attending Ballyhaunis Community School, Mayo, Ireland

AWARDS & ACHIEVEMENTS

- Gold medal award for graduating with the highest academic results from the University of Limerick in 2007 (out of approximately 2,200 students).
- Won the Globe Forum ‘Early Career Research Award’, which included PhD and postdoctoral researchers for my innovative research on sustainable energy.
- Created the first complete model of Ireland’s energy system using software called EnergyPLAN.
- Designed and commercialised a new software tool to find pumped hydroelectric energy storage.
- Awarded a PhD scholarship from The Irish Research Council for Science, Engineering and Technology (IRCSET) as well as The Advanced Scholars award from the University of Limerick.

IT & PROGRAMMING SKILLS

- **Adobe Dreamweaver:** Design and development of numerous websites featuring downloadable files, specialised image viewers, videos, and forums.
- **Adobe Photoshop:** Development and design of key visuals for research and website identity.
- **MATLAB:** Software programming.
- **LabVIEW:** Software programming.
- **GX Developer:** 'Step Ladder' PLC Programming.
- **ProMechanica:** Familiarity with structural and thermal FEA aspects of this software.
- **3D Drawing Software:** ProDesktop, ProEngineer, and SolidWorks.
- **Microsoft Office:** ECDL training and regular use of Microsoft Word, Excel, PowerPoint, Internet Explorer, and file management systems. Extensive use of 2003, 2007 and 2010 versions.

WORK EXPERIENCE

Lecturing, Teaching, and Supervising

2007 - 2010

- Lecturing:
 - PhD course in Aalborg University in Aalborg, Denmark. I taught PhD students about energy tools, energy modelling, and my research.
 - Masters course at the South Danish University in Odense, Denmark.
- Teaching:
 - Teacher and lab assistant for three separate Physics modules at the University of Limerick where I taught and supported undergraduate students in classes of up to 50 students.
 - Taught children (8-12 years old) for *The Centre for Talented Youth* about Mechanical Engineering, which required excellent communication and patience. Assessment of the children's progress was fed back to parents at the parent-teacher meetings.
- Supervision:
 - Project supervisor for a Masters student during his Erasmus visit to the University of Limerick which focused on Domestic Solar Thermal Panels.

Industrial Engineering

June 2005 - Feb 2006

Boston Scientific Corporation, Galway, Ireland

- Worked in a team of 12 engineers.
- Designing custom components required for process improvements on the manufacturing line.
- Completed over 50 designs during eight months – all achieved within the allocated time.
- Project management, computer skills and deadline efficiency were key development areas.

Furniture Moving

Summer 2005

Men on the Move, Long Island, New York, USA

- Travelled around the New York and the tri-state area moving furniture along with a team of mixed nationalities.

Bartender / Waiter / Porter

Summer 2004

The Imperial Hotel, Galway, Ireland

- This was a great opportunity to develop good customer service skills and an ability to 'think on my feet'.
- Working during Galway Race Week was a test of speed, pragmatism but above all, good people skills.

Kitchen Manufacturer

Summers 2001-2003

Connolly Kitchens Ltd., Ballyhuanis, Mayo, Ireland

- Manufacturing and fitting custom-made kitchen and bedroom cabinets.
- Handling large machinery for cutting, sanding, and assembly.
- Managing sales and handling client meetings; presenting options and finding solutions.

REFEREES

References available on request.