Joseph Dalton PhD

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LinkedIn Profile

Career Summary

I hold over 25 years' experience leading cross functional and global teams spanning Information Technology, Healthcare Innovation, Pharmaceutical Development, Manufacturing, Entrepreneurial and Academic domains. This has included many senior leadership roles with companies such as Intel Corporation, Novartis, the Government of Ireland and Georgia Technical Research Institute.

Having completed my PhD in Electronic Engineering, I spent 13 years at Intel corporation where I performed various roles from Manufacturing to Programme and Project ICT management while specializing in Digital Healthcare Innovation. I was awarded *"Intel Global Innovator of the Year"* in 2005 for my work in the Digital Healthcare area. Following Intel, I joined Georgia Technical Research Institute as Ireland start-up Programme director responsible for all start-up operational activity including budget oversight, Technical Research strands definition, and personnel hiring. Following Georgia Tech, I embarked on an Entrepreneurial journey and founded and funded *Intellehealth* with Philips as technology partners. This was a Remote Monitoring/IOT full service to monitor chronic diseases (Diabetes, and COPD mainly) in affected patients. In order to fund myself in parallel with the start-up activity, I founded Dalton Technologies Limited and performed various Consulting contract roles including in 2013 authoring Irelands *"National eHealth Strategy"* which is now being implemented through a public body called *"eHealth Ireland"*. I have been a lecturer in Innovation at the South East Technical University (SETU) and am also a certified R&D Tax Credit Auditor for the Irish Governments Revenue Commissioners where I have performed many public/private engagements.

In 2014 I joined Novartis as Director of Global Digital Healthcare Solutions working mainly remotely. This involved design, development and implementation of Data and Digital solutions (mainly IOT platforms, Software as a Medical Device and Data Analytics) and services to support Novartis' drug assets spanning both commercial and clinical trials. These were mainly in the Neuroscience, Respiratory, Cardiovascular and Opthamology domains. I also performed various Innovation roles for Novartis and in 2019 won the Global *"IT Technology Challenge"* for my work on *AI and Virtual Reality Therapies as a Treatment for Mental Health Issues.* I recently lead a team in Novartis responsible for development of Software as a Medical device (SaMD) applications and the newly established Digital Health Platform. This is an IOT Medical Grade platform especially designed for hosting and developing medical/clinical applications with a large emphasis on Cybersecurity. I am a qualified Jungian psychologist and human counsellor. My interests include all sport especially Rugby, playing guitar and breeding artic-breed dogs.

Professional Qualifications

Qualification	Year	Awarding Institution
Diploma in Entrepreneurial Development (now 'New Frontiers')	2010	Waterford Institute of Technology (now SETU)
National Certificate/Diploma in Psychotherapy	2003	NUI Maynooth and Jung College Dublin
Doctorate of Philosophy (PhD) in Electrical Eng/Physics I was an EPSRC UK funded Research Associate within Cardiff School of Engineering's *Wolfson Centre for Magnetics Technology*. The 3-year research program involved the development of a novel two-dimensional testing system for electromagnetic devices. I also undertook various lecturing and tutorial duties as well as laboratory demonstration and exam correction activities. 3 International Publications.	1997	Cardiff University, UK
Master of Science (MSc) in Electronic Engineering	1993	Cardiff University, UK
BEng in Electronic Engineering	1991	Cardiff University, UK
National Diploma In Electronic Engineering	1989	Waterford Institute of Technology (now SETU)
National Certificate In Electronic Engineering	1988	Waterford Institute of Technology (now SETU)

Other Awards

- National Certificate in Counseling Skills. National University of Ireland Maynooth 2003.
- Diploma in Jungian Psychotherapy – Jung Centre of Ireland 2005.
- National Diploma in Enterprise Development (Entrepreneurship) – Waterford Institute of Technology 2010
- I hold various qualifications in Project management including Waterfall and Agile methodologies.
- **Various Coursera including -** *AI For everyone* (Andrew Ng) - Stanford University 2019, *Machine Learning* Intermediate (Andrew Ng) - Stanford University 2020. *DevOps Introduction* - UC Davis 2021, *Self Determination Theory* – University of Rochester 2021, *Cybersecurity Essentials* – Boston University 2023.

Work Experience - (most recent first) more detailed info at *http://www.joedalton.info*

Zoetis (contract)
April-Sept 2024
Director - Diagnostics Device Asset Strategy Management

- Responsible for development of asset strategy for Zoetis range of AI powered veterinary medicine diagnostic devices

Novartis Pharmaceuticals
Nov 2014-Oct 2023
Director - Global Head Digital Solutions - Global Drug Development

- Responsible for overall Programme management of the design, development and implementation of data and digital solutions to support Novartis clinical trials and commercial drug assets.
- Large focus on IOT systems, Enterprise IT systems, SaMD, AI, Data Analytics and Digital Endpoints.
- Team of 15 people in global locations. All specialist experts in Digital health/pharma innovation and SaMD development. Developed commercial solutions for Neuroscience, Respiratory and Opthamology domains.
- Launched Novartis Digital Health Platform in 2020 which is Novartis' first dedicated platform to enable Digital Solutions. Particular emphasis on Cybersecurity.
- Launched several Entrepreneurial programs. Won "IT Technology Challenge" competition in 2019 for my work in *"VR and AI Technology applications to Mental Health treatment"*. Developed prototype with AWS.

Government of Ireland
Author of Irelands "National eHealth Strategy"
Jan2013-Dec2013

- I was the sole author of Ireland's National Digital Health Strategy entitled *"An eHealth Strategy for Ireland"*. The strategy was launched in Dec 2013. A statutory body called *"eHealth Ireland"* was set up to implement the strategy and is working its way through the various recommendations which includes items such as ePrescribing, Telehealthcare and Electronic Health records. See full document here

Digital Health Business Start Up
July 2009-Nov 2016
Founder and CEO

- In 2010 I founded Intellehealth. This was a start-up company concerned with developing Telehealthcare solutions for the remote monitoring and management of chronic diseases (mainly gestational Diabetes) using Philips as a technology partner. Intellehealth developed the full service stack sitting on various technology including wearables as the data capture elements.

Self Employed Consultant
Feb 2010-Present
Various Roles held including

- *Nimbus Research Centre, Institute of Technology Cork, Ireland - Research Centre Operations Manager* In 2011 and 2012 I managed the Nimbus Research Centre (IOT/sensors/wearables research centre which involved overall group leadership, research partnerships, strategy setting, people and P&L management. Responsible for several Innovation partnership programmes.
- *Lecturer in Innovation – South East Technological University Carlow, Ireland.* From Sept 2013-Present. I am an adjunct (part time) lecturer at Institute of Technology Carlow on their Masters in Information Technology course. I deliver the "Innovation Management" module
- R&D Tax Credit Consultant - I have been acting on as-needed basis an authorized officer of the Irish Governments Revenue Commissioners for technical Research and Development tax credit assessment and advisory services. I have also worked extensively with private clients in a similar capacity. Areas include Artificial Intelligence, digital health, pharma development and IT management

Start Up Manager - Georgia Tech Research Institute Ireland
Jan 2007-Jan 2009
Start-up Director of Business Operations for GTRI

- Defined overall organizational and Research Operations strategy, funding targets, people hiring, facilities management etc. Full P&L responsibility.
- Overall program Manager for Healthcare technologies and RFID (Radio Frequency Identification) research strands.

Intel Ireland Limited
Feb 1996- Nov 2009
Various roles held including Digital Health Innovation and ICT Engineer

- ICT Manager for manufacturing operations.
- Co-Founder of Intel's IT Innovation Centre Network - Strategy owner and Programme manager for Intel Ireland's IT Innovation portfolio across a Global network. This included designing digital health solutions with innovation partnerships in the areas of Telehealthcare, pharmaceutical anti-counterfeiting and Ambient Assistive Living. I was awarded ***Intel's "Global Innovator of the Year"*** for this work in 2006
- Programme and Overall Project Manager for the set-up Intel's external ICT consulting business and solutions centres in 3 European countries. Full PMO and P&L responsibility. This was a $50 million project.
- Project Managed the FP7 CAPSIL (***C**ommon **A**wareness **P**rogram to **S**upport **I**ndependent **L**iving*) project on behalf of Intel. Working with 7 different partners in 5 different countries.
- Manufacturing Yield and Quality Engineer (3 years) on Intel's chip fabrication plant lines responsible for Quality indicator deliverables, overall Quality programs and root cause and corrective actions implementations.

Personal Interests and Hobbies

Major interest in all sports, particularly rugby hurling, football and cycling. I attend spinning and kettle bells classes each week. I play guitar and like to sing and socialize on weekends. I am interested in how technology and life intersect and have a particular interest in how technology can advance the science of mental health. I breed artic-breed dogs also and I enjoy reading and traveling. I am currently working on writing a book in the psychology and human development area. I am also a fan of vintage motors and machines and enjoy renovating/restoring them.