**Sean Benson**

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LinkedIn: <https://www.linkedin.com/in/sean-benson-a3bb8815a/>

Github: <https://github.com/SCBenson>

Current Project: <https://scbenson.github.io/business-languages/>

Location: Ireland (open to relocation)

Languages: English (native), Spanish (native), German (intermediate)

Professional Summary

Key Skills and Competencies

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Professional Experience

**October 2022 to September 2024: Creganna Medical at TE Connectivity: Manufacturing Engineer**

*World Manufacturer of minimally invasive catheter device therapies and supplies over 50% of the world’s vascular catheters.*

* Line Engineer (8 Months): Led a project to lower scrap levels for a 24/7 catheter automation line; solution led to a yield surplus of 35k units per year which equates to a total of €125k saved per annum.
* Advanced Technology Engineer (8 Months): Headed data analysis for the inspection measurements recorded in a clean room for a novel tricuspid valve device. Successfully drafted a device development plan for the gate two phase using advanced statistical analysis reports.
* Research and Development Engineer (8 Months): Chief engineer for a laser cut hypotube technology tool which offers customers a highly customizable hypotube for a range of intra-vascular therapies. Conducted & simulated data in-house. Lead a team of engineers to approximate non-linearities in our dataset using supervised machine learning.

**January 2019 to August 2019: Aerogen: Clinical Science Liaison Internship**

*World leader in aerosol drug delivery in the acute care sector, reaching over 10m patients in 75+ countries.*

* Reported to the team leader with the responsibility of supporting client by communicating trial research and delivering consultations on hospital’s use of products.
* Reviewed and wrote literature reviews on scientific publications for ventilatory methods and the impacts that Aerogen’s products have over conventional devices.
* Produced, maintained, and ensured quality of all documentation, including training materials and previous and ongoing international clinical trials.

Education

**2020 - 2021 Master of Science (MSc) in Biomedical Engineering specialized in Neurotechnology: Imperial College London**

*Thesis: Machine Learning to Decode Phonemes in Degraded Speech from Neural Response Data in the Ascending Auditory System.*

**2016 - 2020 Bachelor of Engineering (BEng) in Biomedical Engineering: University of Galway**

*Thesis: Physiological Motion Induced Loading Conditions at the Electro-Tissue Interface During Deep Brain Stimulation: A computational investigation.*

Technical Appendix

* **Software Development:** Python; C++; MATLAB.
* **Development Methodologies:** Vue.js; node.js; Firebase; Firestore; MongoDB; NoSQL; Object Oriented Programming; Dynamic Programming; Functional Programming; Machine Learning(Unsupervised, Supervised Learning and Deep-Q Learning); Containerization; Continuous Integration; Continuous Development; Optimization; Hyperparameter Tuning; Regularization; Fundamentals of Algorithms & Data Structures.
* **Data Analysis & Science Tools:** Visual Studio, Jupyter Notebooks; NumPy; Matplotlib; Scikit-Learn; Pandas; PyTorch; Statistical Analysis; Linear Regression; RNNs; CNNs; KNNs; Random Forest; Data Cleansing; Exploratory Analysis; Tableau & Data Visualization; Advanced Statistics.
* **Other:** Microsoft Teams; Git; GitHub; Minitab; Google Colab; Visual Studio; Jupyter Notebook; Spyder; Basics of SQL; MS Office; Google Suite; Excel.