



DR. ENG. IULIAN MARINESCU

Senior Programme & Product Manager | Engineering wizard | AI Tech & Aerospace
+44 75 35 739 690 | [Linkedin](#) | julyuio+cv@outlook.com | <https://marinescu.tech>

ABOUT ME

Engineer at core, Senior Programme and Product management, Business Analyst, with **14 years of professional experience** in New Product Introduction (NPI) and development:

- 12 Years of Experience in **Innovation in Engineering**.
- 4 Years Experience in **Tech Development, AI, ML and Digitization**
- 12 Years Experience in **Manufacturing in Aerospace sector**
- £5 mil delivery in the last 4 years and generated investment of £6mil

Dev. products in: Python, C,C++, Embedded C, MODUS, Matlab

Big Data Analytics: Pytorch ,Panda, Matlab, High Freq Analysis, Filtering

Developed Open-Source Software: PassMag - Enterprise VPS Cryptology

New Product introduction for Repair Market: Cold Spray, Localised Heat Treatment

WORK EXPERIENCE

☐ **Digital Catapult – London**

Programme & Product Manager– AI Supply Chains Accelerator

Nov 2020 - Current (4 years)

Leading Programme manager for a **£4Mil**. Open Calls for Digital Supply Chain, working with Microsoft, Rolls-Royce, Zoll, O2 , Vodafone (IoT), Nissan. Providing funding to small companies (Startups /SMEs) to develop digital tech solutions for the sponsors.

- Impact Monitoring for **AI & ML Technologies** (Deep tech)
- **Technical: AI , LLMs, HIT-AI , ML for Supply Chains** , Interoperability of Data
- FAISS, SQL, PostgreSQL,
- AWS, Google Cloud technologies , but mainly AWS.

☐ **Rolls-Royce – Singapore**

Technology Manager

Aug 2015 - Nov 2020 (5 years)

Managing a portfolio of projects in technology development for the repair Aerospace Market. Working closely with the repair shops in Asia pacific (HAESL, SAESL).

- Developing **AI for Materials** Additive Manufacturing for Aerospace. **(Image processing and classification)**
- Business Case development , Product Development, Working closely Airlines business
- Strategy building and Technology roadmap.

□ **Rolls-Royce – Hucknall**

Manufacturing Engineer – Combustion and Casings

Jul 2012 - Aug 2015 (3 years)

Leading Innovative Inspection techniques using **Image Processing cameras** on CMMs for Combustion Chambers for RR Trent 900 (for Airbus A380) and RRTrent XWB (84k and 97k Combustion) leading several R&D projects in innovative inspection

□ **Rolls-Royce UTC (UoN) – Nottingham**

Technology innovation – RE

Jul 2009 - Jul 2012 (3 years)

Leading a 4.000.000 EU funded project on Robotic Waterjet Cutting with a consortium of 5 Industry leaders and 3 Universities - cutting of aerospace grade alloys.

EDUCATION:

PhD in Manufacturing of Aerospace Alloys and process monitoring

The University of Nottingham, UK

Sep- 2005 –Jul 2009

Publications: 10 Journal papers & 3 conference papers.

PATENTS: 9 awarded / 10 Patents Pending

- **WO14045030A1** - IMPROVEMENTS IN OR RELATING TO ABRASIVE MACHINING
AMELIORATIONS DANS OU CONCERNANT UN USINAGE ABRASIF
- **GB2462117A** - Controlling a machine tool through AE sensing
- **US2012067158A** - FLEXIBLE TOOL for on-wing inspection
- **US2017173611A** - COLD SPRAY NOZZLE ASSEMBLY AND A METHOD OF DEPOSITING A POWDER MATERIAL ONTO A SURFACE OF A COMPONENT USING THE ASSEMBLY
- **GB20180220** - Visual Inspection on hard to access area - Pressure Face of Firtree Serration
- **CP7282734** - METHODS FOR DEPOSITING COATINGS, AND COMPONENTS WITH DEPOSITED COATINGS
- **GB20170228** – Infrared Variable Temperature flexible heating system

AWARDS: 2x Best Innovative Project: Innovate UK & DCMS (2021 and 2022) + 1 in 2025 Logistics Living Lab(L3) project: L3 Manufacturing Award - Most Innovative Supply Chain Sustainability Solution