

Andrés Muñiz-Piniella, CEng

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Profile

Industrial Engineer with experience in community and facilities management.

Experience

2019 – Present: Participatory City Foundation, **Manager** of “The Warehouse” a Barking and Dagenham Council facility. It includes: urban garden, wood workshop, ceramic workshop, digital making workshop, event space, co-working space, industrial kitchen and fabric workshop. Coordinating products, people, H&S, and stocks.

2017-2019: C4AD CIC, **Founding Director**. Technological consultancy and rapid prototyping.

2014-Present: Ham United Group, **Director**. Co-Founder of the member run Richmond Makerlabs a community workshop and co-working space activities include technical support, technical training and prototyping.

2014-2016: National Physical Laboratory (NPL), **Facilities Manager** and **Higher Research Scientist**. Coordination and design of thermoelectric device testing facility with uncertainty analysis. Coordination and delivery and coordination of synchrotron beam line sample enclosure for novel measurements. Laboratory management of the Atomic Force Microscopy (AFM) Suite responsibilities include training and H&S. Research on III-V Semiconductor materials, design and delivery of minor devices and extensions to equipment.

2007-2014: NPL, **Facilities Manager** and **Research Scientist**. Commission of ISO quality Cleanroom Facility for use across divisions, SMEs and Universities. Responsible for quality, training and H&S. Computer Aided Design and Finite element analysis of a Novel Vacuum compatible nano-scratch tester. MEMS design and simulations to characterise piezoelectric materials. Commission of novel facility for microfluidic particle image velocimetry. Organic photovoltaic research using AFM.

2006-2007: Joint placement NPL and University of Navarra, **Sandwich Course Student**. Design and build a nano mechanical tester for use under a Scanning Electron Microscope.

2005: CEIT Spain, Data Analyst (Student). Analysis of electro magnetic signals.

1995: Science Camp Watonka USA, Summer Camp Councillor supervision of four children.

Professional Development and Skills

- Health and Safety training on electrical, workshop, fire, lone working, food safety, pressured gases, chemical and laser. Risk assessment training.
- Soft skills training on presentation skills, facilitation skills, communicating and influencing, science ambassador and digital champion.
- Basic knowledge of Python coding for Data analysis, Arduino prototyping, web technology as system administration, web hosting and HTML5.

- 3D Computer Aided Design including Solidworks and FreeCAD.
- Fluent in Spanish at a technical level.
- Several scientific equipment. Measuring: Atomic Force Microscopy, Scanning Electron Microscopy, optical microscopy, lock in amplifier. Fabrication: wet and dry etching, lithography, metallization, wafer saw, wirebonding, and Ultra high vacuum systems.
- General workshop tools: Pillar drill, mitre saw, circular saw, CNC Mill, laser cutter, kiln, vacuum former, soldering, 3D printing, sewing machines, and vinyl cutters.
- AAT level 1 accounting.

Education

- **Masters degree** in Industrial Engineering by the University of Navarra.

Other

- Memberships: Chartered engineer in UK and Spain, Institute of Physics and Free Software Foundation.
- Bootstrap visible LGBT+ community and influenced NPL management to join Stonewall as diversity champions. Several procedures were changed producing happier more productive employees.
- Promoted the High profile Erasmus Plus program securing 12 good placements over 4 years.
- 11 co-authored scientific papers in peer-reviewed journals.
- British and European Driving licence.
- Up to date DBS checks.
- References available on request.