

# Mohammad Harris

Sustainable Technology | Artificial Intelligence | Research and Development  
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## Personal Profile

Climate and clean technology leader with a background in AI-enabled manufacturing, sustainable engineering, and circular systems development. Specialised in building applied, data-driven tools that help industries improve resource efficiency and reduce waste. Track record includes securing and overseeing competitive funding (£1m+ equivalent), collaborating internationally across academia, industry, and startups, and translating complex technical work into deployable solutions. PhD-qualified engineer with strong analytical depth and hands-on execution experience.

## Professional Experience

### **Sep 2025 – Current Managing Director/Founder, Inshira Technologies Limited (London)**

- Built AI-SaaS platforms improving resource efficiency, circularity, and operations in SME manufacturing.
- Defined company vision and converted sustainability challenges into a structured roadmap aligned with resource constraints and net-zero initiatives.
- Directed 100+ customer discovery activities, go-to-market strategies, and pilot scoping with manufacturers, universities, and innovation centres to validate use cases and commercial fit.
- Secured non-dilutive funding and institutional support, strengthening pre-seed financial readiness.
- Developed 3+ early MVPs and product prototypes, supporting system design, data workflows, validation and compliance activities, and measurable impact metrics (energy, waste, cost).

### **Sep 2025 – Current Climate Technology Entrepreneur, Carbon13 (Cambridge)**

- Selected for a venture builder supporting the development of scalable decarbonisation concepts (10Mt-Co2e).
- Framed problem statements and solution hypotheses via structured customer interviews and market analysis.
- Translated validated challenges into early product concepts suitable for pilot testing and pre-seed evaluation.
- Assessed technical feasibility and commercial assumptions with domain experts, founders, and investors.
- Cultivated working relationships and outreach across academic, corporate, and innovation stakeholders, such as the University of Cambridge, Barclays Eagle Labs, and ARM.

### **May 2021 – Aug 2025 Project Manager/Visiting Lecturer, University of Hertfordshire (Hatfield)**

- Delivered £800k+ publicly funded R&D programmes (EPSRC, Horizon Europe, Royal Society), coordinating 20+ UK and international partners.
- Supervised project plans, budgets, risks, reporting, and IP outputs across TRL 2–4 innovation activities.
- Built AI and machine-learning models that fed into tools used in thermal management of electronics.
- Headed peer-reviewed outputs (10+ publications) demonstrating technical validation and applied innovation.

### **Jul 2020 – Current Non-Executive Director/Founder, JHT International Ltd. (Dhaka)**

- Launched and scaled a retail business with international market exposure, including e-commerce channels.
- Obtained £10k+ in early-stage funding and applied cost and workflow optimisation techniques.
- Introduced modular and circular packaging approaches, reducing costs by 30% and lowering material waste.
- Embedded ethical sourcing and responsible business practices as per international CSR initiatives.

**Jan 2019 – Dec 2020 Project Engineer/Researcher, University of Bolton & Hitachi Astemo UK (Bolton)**

- Awarded £16K NCME bursary for research integrating Industry 4.0, data analytics, and production optimisation.
- Engineered machine learning-based scheduling models, cutting defects by 3% and achieving 85% Overall Equipment Effectiveness (OEE).
- Led cross-functional teams and embedded continuous improvement practices (Lean Six Sigma, TPM, Kaizen).

## **Core Skills & Competencies**

**Project and Product Management:** Agile and Waterfall methodologies, Jira, MS Project, Stakeholder Engagement, Risk & Budget Management.

**Sustainability & Circular Economy:** Circular Economy Implementation, Lean Six Sigma, LCA.

**AI & Data Science:** Python, Scikit-Learn, Pandas, TensorFlow, MATLAB, Machine Learning, Neural Networks.

**Design & Simulation:** ANSYS, SolidWorks, CFD, CAD Modelling, Computer-aided Engineering (CAE).

**Innovation & Strategy:** Venture building, Funding and grant management, Research and development.

## **Education**

**May 2021 – Dec 2024: PhD in Sustainable Engineering Technologies** (University of Hertfordshire)

**Thesis:** *Enhancing Thermal Management Efficiency in Micro Heat Sinks through Machine Learning Algorithms.*

**Jan 2019 – Feb 2020: MRes Engineering Management (Distinction)** (University of Greater Manchester)

**Sep 2015 – Jul 2018: BEng (Hons) Automotive Engineering (First-Class)** (University of Greater Manchester)

## **Additional Information**

- Royal Academy of Engineering (RAEng) endorsed Global Talent.
- Fellow of Higher Education (AFHEA); Member of Institution of Engineering and Technology (MIET).
- Chartered Engineer, CEng status (awaiting interview); PMP certification (exam pending).
- Engineering Professors' Council Hammerman Award Finalist; Alan Turing Institute's "Learning Machine" Award.
- Guest Editor for Sage and MDPI; Reviewer for Elsevier, IEEE, Wiley, Emerald, Taylor & Francis, and Springer.
- STEM Ambassador (UK); Design and Enterprise Judge, F1 in School.
- Fluent in English and Bangla; Hindi and Urdu (B1); French and Spanish (A2).