

Steve Hammond

Advisor & Systems Architect for Mechanical Products

From CAD to certified production | Figment MRP & R&D delivery systems

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Profile

I help mechanical and R&D-focused founders move from prototype to certified, production-ready hardware — without hiring a full-time CTO. My work combines mechanical product delivery with systems implementation. I bridge design, manufacturing and compliance: CAD/PDM, QA/DFM, simulation, and MRP that engineers actually use. This means your product moves forward while your organisation gains structure and repeatability. With over 20 years across EV, robotics, aerospace and medtech, I've delivered both physical products and the digital systems that keep them on track.

Experience

- Figment / ActiveCell — Co-Founder & CTO

Jul 2021 – Present | Leeds, UK

Built and deployed AI-enabled MRP systems that reduce waste and improve traceability. Led the design of Figment's agentic framework, integrating LLMs, MCP servers and workflow orchestration to automate quoting, scheduling, and production oversight. Developed an automated 22-machine manufacturing system linked to a web app using AI facial recognition to generate custom-fitted mask models, which were 3D printed on demand. Scaled production to 15,000+ units per month and achieved CE certification under an Innovate UK grant.

- Peec Mobility — Thermal Systems Architect & Advisor

Mar 2024 – Jul 2024 | Dubai, UAE

Advised the Peec Mobility team on battery system cooling architecture for an EV platform designed to meet UNECE Reg 100 and operate reliably in Dubai's high-temperature conditions. Developed the prototype thermal system into a production-ready solution using SolidWorks, Siemens NX and MATLAB.

- Charge Cars — Principal Thermal Systems Engineer

Jul 2021 – May 2024 | London, UK

Delivered a production-ready thermal system for 499 EVs; improved reliability, ensured compliance, and built investor confidence.

- Arrival / Roborace — Senior Project Engineer

Nov 2016 – Jun 2019 | Oxford, UK

Implemented CAD/PDM systems to unify remote design teams and accelerate development. As Senior Design Engineer, led all mechanical systems design for the DevBot vehicle — from concept to track-ready build.

- AIE – Advanced Innovative Engineering — Senior Mechanical Design Engineer

Aug 2015 – Jan 2016; Jun 2023 – Jan 2024 | Lichfield, UK

Delivered a rotary engine prototype in under 12 months; advanced the air-cooled 225CS SPARCS engine to PDR readiness.

- O&H Vehicle Conversions — Senior Mechanical Design Engineer

Apr 2014 – Aug 2015 | Goole, UK

Secured a £150k grant and delivered a lightweight ambulance prototype that completed trials.

Selected Achievements

- Delivered production-ready thermal systems for 499 EVs (Charge Cars).
- Built agentic AI-MRP framework integrating LLMs and MCP servers (Figment).
- Designed cooling systems for high-temperature EV operation in Dubai (Peec Mobility).
- Led mechanical systems design for Roborace's DevBot vehicle from concept to track-ready build.
- Delivered CE-certified, custom-fitted PPE using automated 3D-print workflow (ActiveCell).

Education

BEng (Hons), Integrated Engineering with Automotive Studies — Sheffield Hallam University, 2001

Technical Skills

CAD/PDM Systems: SolidWorks, Siemens NX, Onshape, SolidEdge, Autodesk Inventor

Simulation: Ansys Fluent, CFX, Workbench | MathCAD | MATLAB

Manufacturing: DFM, Additive Manufacturing, Composites, CNC, Injection Moulding

Systems: QA/DFM, Change Control, Regulatory Readiness, AI-enabled MRP

Software: Python, GitHub, Figma, Miro, Jira, Asana