

Job Profile

Job Title:	Electronic & Control Engineer
Job Location:	Macmerry, East Lothian
Department:	Engineering
Reporting to:	Head of Engineering
Job Purpose:	Architecture, design, development, and application integration of Sunamp Heat Storage embedded electronics & controls.

Responsibilities

- Lead development of Sunamp's electronic control platform architecture strategy.
- Lead customer technical engagement to establish electronic control application requirements for system and product.
- Lead concept generation, assessment, and selection of electronic control solutions for integration within Heat Battery/Thermal Systems.
- Conduct electronic control calculations, modelling and simulation.
- Oversee prototype manufacture and proof of concept qualification testing.
- Lead design development and generation of component specifications.
- Support purchasing to establish optimum supply chain.
- Oversee inhouse/external testing to ensure compliance with requirements.
- Support production through volume ramp up verification.
- Support integration and verification of product within application.
- Manage technical construction files.
- Lead root cause investigation and implementation of corrective actions.
- Lead cost reduction programs.
- Work collaboratively as part of the Sunamp Engineering team and build positive relationships with wider Sunamp team.
- Support new business development through sales/conference presentations.
- Add to Sunamp's existing Thermal Storage intellectual property (IP).
- Identification of potential new application for Sunamp products.
- Lead engagement with test houses and certification bodies to certify products.

Essential Skills & Experience

- 5-10 years' experience in innovative product development environment, ideally within HVAC and/or Automotive industries.
- 5-10 years' experience of designing and modelling embedded Electronic Control for use within HVAC and/or Automotive Thermal System applications.
- Understanding of material thermal properties and thermodynamics.
- In-depth knowledge of firmware design process and tools, ideally for products deployed within HVAC and/or Automotive industries.

- Experience effectively managing subcontract manufacture and supply of electronic assemblies.
- Proven experience leading projects and delivering technical solutions to quality, schedule, and cost targets.
- Excellent communication and presentation skills.
- Degree qualified in electrical, electronic or control engineering.
- Proven ability to effectively collaborate with and persuade others.
- Adaptability and readiness to challenge existing practices and find alternatives.
- Awareness of ISO 9001, 14001, 18001 and TS 16949

Desirable Skills & Experience

- Experience working within a disruptive technology start-up company.
- Working knowledge of phase change materials and their use for heat storage
- An understanding of Six Sigma and lean methodologies.
- Hands-on practical experience building and/or installing thermal systems.
- Experience managing multi-disciplined projects teams.
- Masters or PhD advanced degree, or member of an Engineering Institution.
- Second language in addition English – ideally French, German, Italian or Spanish.
- Experience applying for and leading grant-funded technical projects.

Basis and Values:

- Able to respect the basis of, and work with, our values, showing a commitment to, and understanding of the Sunamp Ltd culture.

The post may change and develop over time and this role profile may, be amended in This role profile outlines the current main responsibilities of the post. However, the duties of consultation with the post holder.