

Atlas Reaper

Audio Systems Engineer & AI Infrastructure

Dundee, United Kingdom

+44 (0) 7599 062287

atlas@atlas-systems.uk

atlas-systems.uk

in linkedin.atlas-systems.uk

git.atlas-systems.uk

Profile

Final-year student at Abertay University with an engineering foundation (Aeronautical Engineering, University of Glasgow) and a practical track record building systems that are actually deployed; not just submitted for assessment.

In the last twelve months: designed and scored a generative audio system at 100% with a faculty citation for architectural maturity; built a production infrastructure stack from DNS to CI/CD pipeline; and architected a local LLM environment of ten purpose-scoped AI assistants with RAG retrieval and automated boot sequencing.

Started in music (producing and touring internationally by 17) which is where the systems thinking came from before it had a technical name. That crossover between precision engineering and creative architecture is the thread running through everything built since.

2025 Saltire Scholar. Currently in final year, building toward a role in AI infrastructure or audio systems engineering. Full stack visible at atlas-systems.uk.

Technical Skills

Languages Python, JavaScript, C#, Unreal Blueprints

AI / LLM LLM API integration (Anthropic, OpenAI), prompt engineering, RAG pipeline design, local model deployment (Ollama, Open WebUI)

Infrastructure Cloudflare Pages, DNS management, SSL/TLS, CI/CD (GitHub Actions), Docker, custom subdomain routing, Git, Perforce

Audio Unreal MetaSounds, DSP, middleware integration, FL Studio, REAPER

Production Agile/Scrum, Kanban, Jira, technical documentation

Technical Projects

2025 **SONIN: Dual-Engine Generative Audio System, Abertay University, Grade: 100% (A+)**

Engineered an autonomous audio-visual system; the only submission in the cohort cited by faculty for "advanced DSP awareness" and "architectural maturity."

- Designed a dual-engine topology for real-time algorithmic generation, applying the same agent-orchestration logic used in multi-model AI pipelines.
- Resolved complex data compensation edge cases, directly applicable to grounding LLM outputs and building fault-tolerant RAG retrieval chains.

2025 **Atlas Systems: Live Technical Infrastructure, Lead Architect**

Designed and deployed a production-grade personal infrastructure stack from scratch.

- Stack: Cloudflare Pages, GitHub Actions CI/CD, Docker, custom subdomain routing (cv., git., linkedin., reel.), SSL/TLS end-to-end.
- Automated deployment pipeline: push to main → Cloudflare build → live at atlas-systems.uk with zero manual intervention.
- Built and documented a local LLM stack: Ollama + Open WebUI with ten purpose-scoped AI assistants including a RAG-grounded professional correspondent and a document corpus analysis engine.

Experience

- Jun 2025–Present **Saltire Scholar**, *Entrepreneurial Scotland*, Global
Competitively selected for Scotland's flagship entrepreneurial leadership programme. Focused on commercial strategy, global connectivity, and high-impact execution.
- Sept 2023–Present **Founder & Lead Architect**, *Atlas Systems*, Remote
Independent practice delivering technical audio, system architecture, and AI infrastructure solutions for interactive media clients.
- May 2022–Apr 2023 **F&B Supervisor**, *Crieff Hydro Hotel*, Crieff
Assumed full operational responsibility during extended management absence. Drove guest satisfaction from the lowest-rated to the second-highest-rated department in the hotel within the same period.
- Jun 2021–Apr 2022 **Team Manager**, *Hunter Sales and Co.*, Glasgow
Promoted to Team Manager within the first quarter. Built and led a high-performing B2B sales unit; developed structured conflict resolution and strategic planning processes that increased team output.

Education

- 2023–Present **BA (Hons) Game Development and Production**, *Abertay University*, Dundee
Centre for Excellence in Computer Games Education. Specialising in technical audio systems, AI integration, and interactive system architecture.
○ **Focus:** System design, technical audio (MetaSounds / middleware), Agile production.
- 2019–2021 **Undergraduate Coursework: Aeronautical Engineering**, *University of Glasgow*, Glasgow
Completed coursework in Thermodynamics, Fluid Mechanics, Engineering Mathematics, and Structural Analysis before transferring to pursue systems and interactive media full-time. Engineering rigour informs current approach to procedural automation and algorithmic modelling.
- 2013–2019 **Advanced Highers & Highers**, *Dollar Academy*
Advanced Highers (Grade A): Engineering Science, Mathematics, Physics.

Honours & Awards

- 2025 **Saltire Scholarship**, *Entrepreneurial Scotland*
Selected from a competitive national pool. One of Scotland's most recognised programmes for entrepreneurial talent.
- 2024 **Duke of Edinburgh's Gold Award**
Completed the Gold standard including the expedition phase twice, serving as lead navigator and team mentor throughout.
- 2019 **Academic Excellence**, *SQA Advanced Highers*
Grade A across Mathematics, Physics, and Engineering Science.