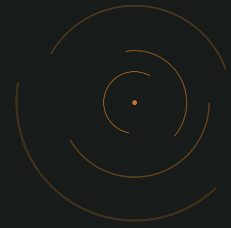


STIMITA MOTION CONTROL

PRECISION MOTION SYSTEMS FOR DEFENCE · PUNE, INDIA

C++/Python Developer

FIRMWARE INTEGRATION & GUI SOFTWARE



LOCATION

Pune, Maharashtra — On-site

EXPERIENCE

2–5 years

EMPLOYMENT TYPE

Full-time, permanent

ABOUT STIMITA MOTION CONTROL

Stimita Motion Control designs and manufactures custom actuators, servo drives, motion controllers, encoders, gearboxes, slip rings and hand-grip systems for defence and industrial platforms — from gimbals and remote control weapon system to unmanned ground vehicles. We're a small, engineering-led team building precision hardware end-to-end, from prototype to production, for customers including DRDO, BARC, HAL, BEL, and Bharat Forge.

ABOUT THE ROLE

We're hiring a C++/Python Developer to build the software layer that sits on top of our firmware — the tools and applications that let both our own engineers and our customers actually get value out of Stimita Motion Control's hardware. This is two connected pieces of work: code that talks directly to our firmware over the same protocols our controls team builds on, and the front-end software — the real application customers and engineers open and use — that turns that raw firmware data into something clear, configurable, and genuinely useful. You'll write the code, build the GUI, and test everything on physical hardware yourself — this isn't a role where you hand code off to someone else to find out if it actually works. To write software that's genuinely efficient here, you need to understand the hardware underneath it, not just the API on top of it. You'll work closely with our Lead Control Systems Engineer, sitting right at the boundary between hardware and software, and you should be comfortable picking up new hardware and software as the company's product line grows.

KEY RESPONSIBILITIES

Firmware Integration

- Write C++/Python code that communicates with Stimita's firmware over standard protocols (CAN, EtherCAT, RS-422/485, serial) to read, configure, and control our servo drives, motion controllers, and encoders.
- Build reliable data pipelines between firmware and higher-level software — parsing, logging, and processing real-time data from hardware.
- Work closely with the Engineering team to keep firmware and software interfaces in sync as both evolve.

Front-End Software Development

- Design and build the front-end software — desktop or web-based — that customers and internal engineers use to configure, monitor, and tune Stimita's products.
- Turn raw firmware data into a clear, usable interface — real-time graphs, configuration panels, diagnostics — not just a dump of numbers.
- Build software reliable enough for customers to depend on directly, not just an internal engineering tool nobody outside the company sees.

Physical Hardware Testing

- Test everything you build on real Stimita hardware — servo drives, motion controllers, encoders on the bench — not just against simulated or mocked data.
- Write tests and validation tools that confirm software behaves correctly against real hardware, not just in isolation.
- Debug issues that span both firmware and software, tracing problems back to their actual source, hardware or code.

Documentation & Support

- Document software architecture, APIs, and usage clearly enough that engineers and customers can actually use it without hand-holding.
- Support customers and internal engineers using the software, fixing issues and improving it based on real usage.

WHAT WE'RE LOOKING FOR

- 2–5 years of experience in C++/Python development, ideally with some exposure to hardware/firmware communication (serial, CAN, or similar protocols).
- Genuine interest in understanding how the hardware actually works, not just the software layer — the code you write is only efficient if it respects what the hardware underneath it can and can't do.
- Experience building front-end or GUI applications in C++/Python (e.g. PyQt/PySide, or a Python backend with a web front-end) — this isn't backend-only work.
- Comfortable working close to hardware — reading data sheets, debugging communication issues, and testing your own code on physical hardware, not just against abstracted APIs.
- Strong software engineering fundamentals — clean code, testing, version control.
- Experience with real-time data handling and visualisation is a strong plus.
- Comfortable working directly with customers and engineers to understand what they actually need from the software.
- A fast learner who's genuinely comfortable picking up new hardware and software as Stimita's product line and tooling evolve — this isn't a role for someone who wants to work with one fixed stack forever.

WHAT WE OFFER

- Real responsibility for a software product that both engineers and customers depend on directly — not an internal tool nobody sees.
- Collaborate with the other Engineers, working right up against real hardware.
- A front-row seat in a growing defence-engineering company building software for hardware that ships to DRDO, BARC, HAL, BEL, and Bharat Forge.
- Competitive compensation, commensurate with experience.

HOW TO APPLY

Send your resume and a short note on relevant experience (GitHub/portfolio links welcome) to career@stimitamc.com with the subject line “C++/Python Developer — Pune.”