Platform Software Engineer

Human-Robot Collaboration Platform · Founding Team 2027 · AUX-ENG-SD-05

Reference	AUX-ENG-SD-05	**Level**	Senior, 7+ years
Reports to	Dr. Mamdouh Yanni, Founder and CTO	**Location**	On site in Dubai, at the first service bay and the pilot workshops
Employment	Full time, UAE employment contract	**Start**	At the close of our Seed round

About Auxionetics

Auxionetics Artificial Intelligence L.L.C S.O.C is an IP-led robotics company in Dubai. Our patent-pending technology aims to let people and robots work safely side by side, and its first use will be the Smart Robot Mechanic: a car-service bay in which two collaborative arms will take on the repetitive, physically demanding work while a skilled technician stays in charge of every job. Six US patent applications and an international (PCT) application have been filed. We will run our own workshops in Dubai and license our Human-Robot Collaboration platform once it runs reliably in daily operation.

Why this role matters

Our Human-Robot Collaboration platform will decide, moment by moment, when a robot acts and when a person takes over, and keep a complete record of every action. You will build the software services behind it: the job record, the hand-off between robot and technician, and the data our customers, insurers and regulators will rely on.

What you will own

- **Platform services.** Build the backend services that run every job: job state, robot and technician actions, approvals and hand-offs.
- **Complete record.** Design the event log so that every action is recorded, time-stamped and tamper-evident, and can be reviewed later.
- **Interfaces.** Integrate with the robot software, the technician console and the customer check-in flow through clean, versioned APIs.
- **Reliability.** Make the platform run on site, tolerate network loss, and recover cleanly; monitor it in production.
- **Security.** Apply secure-by-design practices: authentication, roles, encryption and audit trails, with our IT and cybersecurity provider.
- **Data.** Provide the data pipeline for operations dashboards and for improving our service procedures.
- **Interns.** Mentor our summer intern AUX-INT-SD-05 each year: a defined 16-week project, weekly reviews and the final assessment.

Minimum qualifications

- A degree in computer science or software engineering.
- 7+ years building production backend systems, including event-driven or real-time services.
- Strong in at least one of Go, Python, C++ or TypeScript; SQL and time-series data.
- Containers, CI/CD and production monitoring.
- Clear written English.

Preferred qualifications

- Software that controls or monitors physical equipment (robots, vehicles, industrial systems).
- ROS 2 bridges or industrial protocols (OPC UA, MQTT).
- Security engineering and audit logging.
- Edge deployment on site with cloud synchronization.

Your first year

By	What success looks like
3 months	Platform architecture agreed; job record and event log running against the robot simulation.
6 months	Platform running every test job on the first bay, with the technician console connected.
12 months	Platform live in the first pilot workshop; every job fully recorded and reviewable.

How we work

- Safety by design. The bay will be engineered to ISO 10218-1/-2:2025 from day one; all work near robotic equipment follows a documented risk assessment and safety induction.
- **Measured, not claimed.** Targets are measured on real vehicles; simulation before hardware, review before merge.
- **Planned tools:** Python or Go services, PostgreSQL and time-series storage, containers, CI/CD, ROS 2 bridges.

What we offer

- A founding role, working one-to-one with a founder who has almost 30 years of engineering experience, including 12 in Silicon Valley.
- Named-inventor recognition for inventions you contribute to.
- A competitive salary; company-paid visa, work permit and health insurance; annual leave and end-of-service gratuity under UAE law.

Conditions. Every offer is conditional on the close of our Seed round, satisfactory checks, a UAE work permit, and an agreement assigning to the company the IP created in employment.

> **How to apply.** Email your CV and a short note on the most relevant system you have built to careers@auxionetics.com, quoting AUX-ENG-SD-05. Shortlisted candidates will have a technical interview and a system-design exercise with Dr. Mamdouh Yanni. CVs are used only for recruitment and deleted within 12 months unless the candidate joins us. **Auxionetics is an equal-opportunity employer** and selects on merit alone.