Electrical and Safety Intern

Robot Cell Integration · Summer 2027 Internship · AUX-INT-SD-04

Reference	AUX-INT-SD-04	**Program**	Paid summer internship for university students in the UAE: 16 weeks from early May 2027
Mentor	Controls and Functional Safety Engineer (AUX-ENG-SD-03); oversight by Dr. Mamdouh Yanni	**Location**	Hybrid, Dubai: weekly in-person mentor sessions; other work remote
Schedule	Full time, up to 40 hours a week, set to meet your university's credit requirements	**Stipend**	Paid monthly; amount set in the training agreement
Who can apply	Electrical, Electronic or Mechatronics Engineering. Students eligible for their university's credit-bearing internship (senior standing, as the university defines it).		

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 internship matters

A collaborative robot cell is only as good as its safety case. The first bay must be safety-assessed before it serves a single customer, and that assessment rests on complete electrical drawings, a sound risk assessment and recorded tests. You will help build that evidence.

Your project

- **Electrical design.** Prepare wiring diagrams, panel layouts and electrical parts lists for the cell, under review.
- **Risk assessment.** Support the risk assessment against ISO 12100 and ISO 10218-1/-2:2025, tracing each hazard to its safeguard.
- **Safety tests.** Prepare test procedures and records for the cell's safety functions, and help run tests under supervision.
- **Document control.** Keep the electrical and safety documentation complete, consistent and under revision control.
- **Standards register.** Maintain a register of the standards and regulations that apply to the cell, with the clauses that matter.

Minimum qualifications

- Studying for a bachelor's degree in Electrical, Electronic or Mechatronics Engineering.
- Sound grounding in circuit analysis, electrical machines and control systems.
- AutoCAD Electrical, EPLAN or a similar drawing tool.
- Clear written English, and the discipline to deliver independently between sessions.

Preferred qualifications

- PLC programming coursework or projects.
- Interest in machine safety and industrial automation.
- Laboratory, workshop or maker experience.

Your 16 weeks

Weeks	What success looks like
1–2	Safety induction complete; standards register started; targets agreed with your mentor.
3–8	Wiring diagrams and panel layouts drafted and reviewed; hazard list traced to safeguards.
9–14	Safety-function test procedures written; tests supported and recorded under supervision.
15–16	Final report and a complete, revision-controlled document set delivered.

How we work

- **Safety first.** No intern operates robotic equipment without supervision and a documented safety induction; all work near the cell follows its risk assessment.
- **Measured, not claimed.** Set targets with your mentor, measure them, and report what you find, including what did not work.
- **Written and reviewed.** Weekly one-to-one reviews, short written notes, and every deliverable reviewed before use.

What you will gain

- **Real ownership.** A defined project whose results will feed directly into the first robotic service bay.
- **Mentoring.** Weekly one-to-one time with a founding-team member, and oversight from a founder with almost 30 years in engineering, including 12 in Silicon Valley.
- **Academic credit.** A final report and presentation prepared to support your university's assessment, and a reference letter on successful completion.
- **A route in.** Strong interns will be considered first for graduate roles as our team grows.

Conditions. A written training agreement (training areas, duration, hours and stipend); a student training permit from the Ministry of Human Resources and Emiratisation (MoHRE) and a no-objection letter from your university; the candidate and intern confidentiality agreement, and an assignment of intellectual property created during the internship. Interns never pay any fee. Each internship opens only if our Seed round has closed and its mentor has been in post for two months by May 2027; we will confirm by 31 January 2027.

How to apply. Email your CV, transcript and any drawings or project work you can share to careers@auxionetics.com, quoting AUX-INT-SD-04 in the subject line. We can also work through your university's placement process. Shortlisted candidates will meet Dr. Mamdouh Yanni, with the mentor where in post, for a 45-minute interview in February or March 2027. 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.