



POSITION DESCRIPTION:

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Controls Engineering Intern

Classification – Exempt

Location – Beloit, WI

Reports to – Engineering Manager

Date – 08/18/2026

Workload

Internship will be full time during summer break and flexible part time during semester.

About Us:

We are a dynamic middle-market equipment manufacturing company experiencing rapid growth through both organic initiatives and strategic acquisitions. Specializing in the construction equipment industry, we pride ourselves on delivering innovative solutions to our customers. With asset-light manufacturing model, we are committed to operational excellence and building a culture of collaboration and servant leadership.

POSITION DESCRIPTION:

Ligchine is seeking a motivated Electrical Engineering Intern to support the design, development, testing, and continuous improvement of advanced construction equipment. This role provides hands-on experience working with electrical systems, machine controls, sensors, CANbus networks, automation technologies, and new product development projects used in Ligchine's industry-leading laser-guided screeds and related products.

The intern will collaborate with product development team members to help develop innovative solutions that improve machine performance, reliability, safety, and user experience.

PRIMARY RESPONSIBILITIES:

1. Assist in the design and documentation of electrical control systems for construction equipment.
2. Support development and testing of machine wiring harnesses, electrical schematics, and electrical assemblies.
3. Assist with CANbus communication systems, sensors, controllers, and HMI displays.
4. Participate in prototype builds, debugging, and validation testing.

OTHER DUTIES/RESPONSIBILITIES:

Contributing to a safe working environment by following all safety protocols.



POSITION DESCRIPTION:

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JOB QUALIFICATIONS:

Knowledge:

1. Currently pursuing a Bachelor's degree in Electrical Engineering or related engineering discipline.
2. Completion of coursework in:
 - Circuit analysis
 - Electronics
 - Electrical measurements
3. Experience with electrical design software (Preferred).
4. Familiarity with CANbus communications(Preferred).
5. Strong analytical and problem-solving skills.
6. Ability to read and interpret technical drawings and schematics.
7. Effective written and verbal communication skills.
8. Proficiency with Microsoft Office applications.

Certificates and Licenses:

Maintain a valid driver's license.

WORK ENVIRONMENT:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. While performing the duties of this job, the employee is regularly exposed to moving mechanical parts, airborne particles, and varying shop temperatures. The noise level in the work environment can be loud, requiring appropriate personal protective equipment (PPE).

PHYSICAL DEMANDS:

The employee is regularly required to stand, walk, climb, stoop, reach, and use hands to manipulate tools and heavy components. The employee must frequently lift and/or move up to 50 pounds. Specific vision requirements include close vision, distance vision, depth perception, and the ability to adjust focus.