Lead Control Systems Engineer (LCSE202005)

Location: Toronto
Type: Full-time
Start-date: As soon as possible
Experience: 3 years minimum experience (Co-op not considered)
Education: Minimum BASc in Relevant Field
                (Comp. Sci., Elec. Eng., Controls Systems, Mechatronics, Automation, etc.)

Note- Applications will be reviewed on a rolling basis, you are encouraged to apply early. Only applications with completed questionnaires will be reviewed.

About Able Innovations

Able Innovations focuses on accessible design. We look to radically re-envision products and services for people with disabilities with an eye to making the user experience efficient, safer and more independent. Our current product under development is the DELTA lift. By combining cutting edge technology and feedback from healthcare professionals, the DELTA lift aims to address significant issues with patient handling. As injuries to workers are a significant cost to the healthcare sector, our product aims to ease that financial burden. Apply to become a part of our dynamic team with limitless opportunities for personal and professional growth.

About the position

At Able Innovations Inc. our goal is to innovate and create revolutionary technology with the purpose of providing greater Independence and mobility for people with disabilities. As a new start-up we are quickly growing and looking for new team members who are driven, passionate and hard working. As the lead control systems engineer, you will play a crucial role in product development including detailed design and development. The candidate will have the opportunity to influence the direction of the company and product, as well as can take on a leadership role. The candidate must be passionate about their work with a 'do whatever-it-takes attitude".

Requirements:

- Must have completed a 4-year engineering degree in Computer Science, Electrical Engineering or other relevant discipline
- Demonstrated ability to lead product development projects, including lifecycle, revision control and proper documentation
- Must have experience in developing control systems for a commercial or industrial product
- Excellent knowledge of robotics, control systems architecture and theory
- Experience developing control systems requiring motor control and sensor fusion
- Experience of software and firmware engineering management including quality control
- Experience in electronics hardware design and development
- Experienced with RTOS platforms

Bonus:

- Experience with computer vision
- Experience with implementation of machine learning algorithms
- Experience with cloud infrastructure
- Experience with Linux

Required Skills:

- Track record for delivering products and/or designs that reach commercial maturity
- Creative problem solving
- Diligent work ethic
- Demonstrated leadership ability
- Excellent communication
- Self-Motivated and takes initiative
- Past startup experience considered a bonus

Application Requirements:

Please submit resume, cover letter and questionnaire as a single PDF document with the naming format "LCSE202005_Firstname_Lastname". Feel free to include any relevant projects/portfolio. Please email your applications to ablecareers@ableinnovations.ca.

Questionnaire:

Please answer the following questions to the best of your abilities and attach with your application. Keep your answers brief and concise:

1) Describe, in your own words, what is sensor fusion?
2) What type of product application would benefit from using a stepper motor over a DC motor?
3) Explain a difficulty associated with developing and implementing an RTOS.
4) Please attach a copy of any relevant portfolio projects with the submission
5) State your earliest availability to begin working