

Position Type: Software Design Engineering Student

Location: Ottawa, Ontario, Canada

### **About Arkalumen**

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Arkalumen designs and manufactures intelligent LED controllers and custom LED modules for light fixture manufacturers in order to enable energy efficient and feature rich lighting solutions. For over 10 years, Arkalumen has focused on Simple, Flexible, Cost Effective solutions that enable highly differentiated fixtures to be launched in commercial, industrial and residential markets. With 30+ patents, Arkalumen has a history of driving innovation within the lighting industry and is proud to push the limits of what lighting can be in specific applications such as education, healthcare, film and horticulture. The vision of Arkalumen is to provide high quality illumination for people where they live, work and play, while improving energy utilization and environmental sustainability of lighting.

### **Duties and Responsibilities**

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- Working with the engineering team to design LED controller hardware and develop firmware code
- Assisting in the development of computer application to interface with Arkalumen controllers
- Testing hardware and software elements for proper operation, thermal analysis, and energy efficiency
- Drafting technical documents for product specifications, white papers, patent applications
- Assisting with vendor relationship management and inventory management
- Working with employees of the Corporation in a team environment
- Other duties as determined from time to time

### **Skills and Qualifications**

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Students must:

- Be enrolled in a Software or Computer Engineering, or equivalent, bachelor's degree at the time of application
- Have obtained, over the previous years of study, a cumulative average of at least a B (Official Transcripts will be requested)
- Demonstrate strong technical knowledge and problem solving skills
- Have strong attention to detail while managing multiple priorities in a fast paced environment
- Demonstrate ability to take initiative and resolve issues with minimum supervision
- Demonstrate good interpersonal, communication, team and organizational skills

- Have working knowledge of Microsoft Office software including Word and Excel

Additional qualifications (considered to be an asset) include:

- Past experience designing firmware elements to be used on embedded systems
- Past experience with 8-bit microcontroller (such as Microchip's PIC16F series or equivalent) firmware design, using both C and assembly
- Past experience in developing windows-based applications using Visual Studio or a similar environment
- Past experience working with or designing LED lighting solutions

### **Eligibility Requirements**

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Arkalumen participates in the Technation Canada Career Ready Program. As such, students are expected to meet the eligibility requirements, and must be willing to complete an application form by the required deadline. For more information, please visit: <https://technationcanada.ca/en/future-workforce-development/career-ready-program/student-information-resources/>