



Firmware Developer

REQUIRED FOR SOLAR PANEL DESIGN & MANUFACTURING COMPANY

Location: 100 Symes Rd, Unit 100 A, Toronto, ON M6N 0A8, Canada

Position Title: Firmware Developer

Starting Date: Immediate

Salary: Commensurate with experience

Date Posted: 2017/06/15

About Morgan Solar

Founded in 2007, Morgan Solar is a Toronto-based, advanced-stage start-up developing new solar power technologies that are unlike anything else. We are performing original research and have a growing portfolio of cutting-edge, high-efficiency solar and illumination technologies in the pipeline, all combining innovative optics with well-established manufacturing processes. We are now working to bring our first breakthrough products to market: the Sun Simba™, a highly efficient, low cost Concentrated Photovoltaic module, and the Savanna™ tracker, a self-ballasted, dual-axis sun-tracking system.

The company has tremendous potential and needs an enthusiastic, hard-working, and intelligent team to help us achieve our goal of making solar energy affordable and accessible.

About the Position Firmware Developer

The successful candidate will have strong knowledge of and affinity for software / firmware algorithm development. Comfort working with various embedded devices as well as experience with microprocessors is critical. The candidate will work on mission critical, high availability, low downtime applications.

The candidate will work within the Control System team to create firmware for electro-mechanical systems that are remotely deployed. The candidate will also be expected to liaise with members of the mechanical design, hardware and software teams to collaboratively develop and improve products.

Morgan Solar is a dynamic company; we require people who can thrive within our fast-paced development schedule.

Qualifications

- Minimum Bachelors degree in Electrical Engineering, Mechatronics Engineering, Computer Science or similar.
- Experience in related position for a minimum 3+ years

Required Skills and Experience

- Design and development of firmware / software in application specific embedded devices
- Control systems algorithm implementation, fundamental control theories and digital control systems concepts
- Experience with real-time operating systems
- Understanding of electro-mechanical devices and systems
- Interfacing with peripherals and external hardware – SPI, I2C, UART, CAN, RS485, Modbus
- Software knowledge: C/C++, embedded software development and debugging on ARM platform
- Strong research, problem solving and troubleshooting skills
- Maintain and document code using source control

Additional Skills and Attributes

- System architecture experience
- Strong experience in testing (unit, integration, whitebox)
- Ability to work well in both independent and team settings
- Familiarity electronic circuits and reading schematics
- Familiarity with oscilloscopes, DMMs
- Software development life cycles such as Agile
- Self-motivated
- Excellent communication skills
- Well organized

What We Offer

- Opportunity for early-to-mid stage engineers to immediately take on a large amount of responsibility on advanced engineering projects. Creativity and boundary-pushing are encouraged, and often see quick implementation.
- Join a motivated team, committed to making solar energy significantly more affordable and accessible. We are a global company, undertaking important projects in very interesting parts of the globe.

To Apply

Please send a cover letter and résumé to careers@morgansolar.com, quoting job reference number **CS170606** in the subject line.