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NatGasCar LLC Job Description

Electrical Engineering CO-OP

The NatGasCar LLC, (www.natgascar.com) located on the east side of Cleveland and a member of the Dan T. Moore Company portfolio of companies, is a Green energy company with a goal of making Compressed Natural Gas (CNG) the green transportation fuel for today. NatGasCar's first *Eco*wise green products include a CNG Vehicle Refueling Appliance (VRA) and an onboard vehicle CNG conversion kit designed to enable the adoption of a clean burning, cost effective and domestically abundant natural gas as an alternate fuel for cars and trucks. Join NatGasCar and help provide key solutions to reducing US energy dependency on foreign oil by eliminating the major barriers to the widespread adoption of CNG as a clean alternative vehicle transportation fuel.

Position Summary:

Reporting to the VP of Engineering, the Electrical Engineering CO-OP works in a mentored, hands-on manner to update and validate the embedded firmware and hardware for our new Vehicle Refueling Appliance control system. The hardware consists of ARM microcontroller with an embedded web server, TC/IP network, a variety of sensors and actuators and a 2.2KW IGBT 3-phase motor controller. In addition to developing code and some hardware, the EE CO-OP will help determine system reliability by contributing to Failure Modes and Effects Analysis (FMEA) and developing certification test plans and may become involved with developing production test systems. As part of the NatGasCar startup team, the EE CO-OP will have the opportunity to play a key role in the new product development and certification process in an entrepreneurial environment.

Key Responsibilities May Include:

- Write both 'C' and HTML code to upgrade prototypes to production quality status.
- Assess prototype analog and digital hardware designs and make necessary design modifications.
- Analyze hardware design for compliance to design and derating specifications.
- Participated in FMEA and document results for submittal to certification agency.
- Design and develop test fixtures and LabVIEW based data acquisition and control.
- Prepare and perform system tests to validate product specifications

Position Requirements:

- Junior or Senior (as of fall 2011) currently enrolled in an accredited Bachelor of Science in Electrical Engineering program seeking a four month or greater CO-OP assignment.
- Must be a self-starter and able to determine specific tasks required to meet assigned objectives
- Looking for candidates with some experience designing and developing advanced microprocessor-based embedded systems.
- Proficiency in developing C and HTML code a must; ARM-7 assembler a plus.
- Some knowledge of sensing technologies, analog electronics, AC induction motors and their control would be beneficial.

The NatGasCar LLC is a startup with a great deal of resources behind it to ensure success. We are looking for a candidate that can contribute to our success and understands the flexibility requires of a newly formed organization. What will set a candidate apart from the rest of the applicants is the ability to show a passion for innovation, internal drive and the willingness to wear many hats as you grow during hopefully more than one CO-OP assignment with the company.

The company offers competitive salary and benefit packages. Qualified candidates should submit their resume to:

NatGasCar LLC
127 Public Square, Suite 2700
Cleveland, OH 44114
Attn: Director Human Resources

Please e-mail resume and cover letter to jobs@natgascar.com. Use the job description as the subject of the e-mail