



Software Developer - Vehicle Control Systems

As a Vehicle Control System Developer, you will assist in the design, implementation, testing, and validation of the various sub-systems that make up an electric vehicle control system. A strong background in advanced control systems will be essential in helping our team develop a state-of-the-art vehicle control system for a fully electric off-road vehicle. Knowledge of safety critical control systems development will be an asset. An ideal candidate will possess the ability to see the business and technical goals and unify them through the design.

What you'll be doing:

- Assisting in the design of robust control systems for challenging environments, focusing on vehicle safety.
- Interpreting and managing advanced control systems in Matlab Simulink.
- Translating control system models into source code to be executed on real-time operating systems.
- Providing automated test coverage for the control system units, and integration testing for the system as a whole.
- Analysing models for functional safety.
- Interacting with other engineering teams to ensure the models and code developed meet the requirements of the vehicle control system.

What we're looking for:

- Bachelor's in mechanical, electrical, or computer engineering
- 3-5 years of experience in control system design and implementation
- Excellent knowledge of vehicle dynamics
- Excellent C/C+, python, and debugging skills
- Experience in developing safety-critical embedded systems
- Experience with using Matlab for modelling control systems
- Background in dynamical systems and controls theory will be considered an asset

- Must demonstrate strong systems engineering fundamentals
- Capable of performing functional safety analysis on complex software systems
- Active Safety algorithm experience is a strong plus
- Knowledge of ISO 26262 standards will be considered an asset, but is not required.

Why work with us?

- You will have independence and the opportunity to have a real impact - your voice will be heard
- Loads of hands-on work
- You will work with something real - you will see your work driving!
- Lots of room to grow with the company, in position and in learning
- Freedom and flexibility in work-life balance
- A values-driven workplace and strong founding culture
- Health benefit plan

Does this sound like you? Would you like to learn more about this exciting career opportunity with our innovative startup team? Please get in touch - we'd love to hear from you! Or if this sounds just like someone you know, please share this job posting.

We thank all who apply, however only those most closely matching these requirements will be contacted for an interview.

If you are interested in this position, please forward your CV and cover letter outlining how you feel you are qualified for this position to: harpreetkohli@potentialmotors.com