



POTENTIAL

Embedded Software Developer

You're passionate about a sustainable future and want to build something special. You want autonomy to own your work and at the same time to work with a talented, like minded team. The pace and scope of a global product launch for a category defining product doesn't scare you - it excites you.

We feel *exactly* the same way.

Potential Motors is an electric vehicle technology startup focused on electric off-road vehicles. Our technology will accelerate the off-road transition to electric vehicles by enabling manufacturers to develop more modular, performant, and resilient EV products. We are preparing for the global launch of a category defining product in 2022 and looking for ambitious people to join our team in creating a new product category and electrifying an industry.

Here's the problem we are facing:

We are looking for an innovative Embedded Software Developer to bridge the gaps between our deterministic team, the embedded electronic control unit, and real world implementation in our electric off-road prototype. We are looking for someone whose main focus and expertise is owning the system, architecture, and implementation of our ECU.

Here's where you'll come in:

- Lead the embedded software architecture to ensure the vehicle control software is designed/implemented in a secure, reliable and sustainable manner.
- Work directly with electrical, controls, and software teams on architecture and implementation.
- Design, implement and test software modules in Matlab/Simulink, embedded C/C++ for interfacing with different vehicle subsystems such as the sensors/actuators, motors/inverters, vehicle control unit, battery management systems etc.
- Validate the requirements of the design using processor-in-the-loop, hardware-in-the-loop, software-in-the-loop and in-vehicle testing.
- Manage Software development cycle using tools such Git, CI/CD.
- Conduct functional safety activities to ensure compliance to ISO26262 /MISRA C standards.

Who we are looking for:

Required Skills

- BS/MS in Computer Science or related area, with strong software engineering experience.
- Excellent programming skills in Matlab, C, C++.
- Experience with the full software development cycle, particularly in safety critical software development.
- Advanced knowledge of communication protocols such CAN, USB, SPI, TCP/IP, I2C, CANopen, J939, etc.
- Demonstrable experience in RTOS, Operating Systems development, task and memory management.

Nice to Haves:

- Automotive experience
- Experience in at least one scripting language such as Python
- Experience with basic shop tools and creating basic-level harnesses.
- Experience in GPU computing and deployment
- Strong Linux kernel fundamentals

What it's like to work with us:

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

If this role sounds like you, or even mostly like you, we'd love to hear from you!

Potential Motors is an equal opportunity employer.