



We are seeking bright, curious, and ambitious engineering talent with a keen interest in thinking outside of the box to solve hard and interesting engineering problems. The successful candidate will be a part of a strong team of controls, systems, electrical, and mechanical engineers in the design, integration, and testing of control systems for a variety of applications and clients.

### **Senior Controls Engineer at SwitchBox Responsibilities include:**

- Lead new projects in the translation of customer and stakeholder needs into detailed technical requirements
- Consistently take on the technical lead on projects – key technical customer contact, own system overview and design, lead and review contributor technical project work.
- Design, develop, and validate software applications for a variety of platforms and applications.
- Lead to system verification and validation planning, in particular concerning proper system function and behavior
- Spearhead software product development
- Guide the cross-functional team best practices and processes
- Guide the team on appropriate selection of tools and processes and lead systems modeling and simulation activity for a given project
- Compile lessons learned and foster continuous improvement in the quality and efficiency of project execution

### **Core Competencies:**

- Leading the team in **Technical Expertise** through consistent tech leadership on projects spearheading new design methodologies and technologies. Expertise in multiple domains
- Strong **Communication and Collaboration** through concise technical and non-technical verbal and written communication within the team and consistently the main technical contact with client collaboration.



- **Leadership:** Effective leadership within a project. Build consistent rapport across the full team, representing SwitchBox by building positive professional customer relationships
- **Result orientation** a consistently strong work ethic and excellent attention to detail with a focus on delivering the highest quality work within the timing and requirements of a project. Able to identify project risks and proactively solution them.
- **Innovation and Product Focus:** Take a consistent lead role in creative product development ideas, define requirements and activities with the cross-functional team.
- **Business and Marketing:** Active participation in identifying new customer needs and cultivating new projects (new or existing customers)

## Preferred Credentials

- Achieved Engineering degree from an accredited university with a focus on software
- Master's degree in software engineering or related course of study (e.g. computer engineering)
- Advanced simulation capability including Matlab/Simulink/CarSim/UML/SysML . Strong computer skills and proficiency with multiple coding languages and platforms; C/C++/etc. Proficient with testing and calibration tools (i.e Vector)
- Ability to extrapolate software requirements from multiple sources using a variety of methods. Ability to identify gaps and project risks and resolve them
- Depth in automotive software development and production processes, control systems, comm protocols, and comparable safety critical systems
- Desire and ability to work in a fast-paced and self-directed work environment
- Advanced electrical system diagnostic and troubleshooting capability, including the identification and mitigation of common failure mechanisms
- Intimate familiarity with automotive software systems and selection of proper tools, components, and standards used in development, validation, maintenance and service scenarios