



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.

Systems Engineer at SwitchBox Responsibilities include:

- Document customer and stakeholder needs, and translate them into detailed technical requirements
- Work collaboratively with the project team to define and select the most appropriate system architecture
- Document details of architecture and design, with particular emphasis on target system behavior
- Assist the team with design and definition of internal interfaces within the boundaries of the system
- Lead the definition and change management of external system interfaces and communicate concepts and related development activity to all relevant stakeholders
- Contribute to system verification and validation planning, in particular concerning regulatory, compliance, and production readiness
- Assist with initial customer interactions and solution concepts
- Assist with systems modeling and simulation activity
- Compile lessons learned and foster continuous improvement in quality and efficiency of project execution

Core Competencies:

- Building **Technical Expertise** through having the knowledge or enthusiasm to learn and apply learnings and critical thinking to new projects. Build a skillset in conceptualizing, developing, and testing system designs



- Strong **Communication and Collaboration** through concise technical and non-technical verbal and written communication within the team and with client collaboration.
- **Leadership:** 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.
- **Innovation and Product Focus:** Participate in creative product development ideas and activities with the cross-functional team.
- **Business and Marketing:** Learn the full suite of SwitchBox offerings and business development process. Collaborating with coworkers on technical marketing as needed, providing input to new project proposals.

Preferred Credentials

- Achieved Engineering degree from an accredited university with a focus on systems (Systems, Mechanical, Electrical, Software)
- Ability to comprehend product spec sheets, drawings, schematics and select appropriate components that meet the system design
- Proficient in Microsoft Office, familiar with ALM tools
- Familiar with automotive development and processes, including ISO26262.
- Keen interest in highly technical assignments, willingness to think outside the box and try new things
- System design and integration experience such as First Robotics or Formula SAE experience (preferred)
- Systems Engineering Certification (INCOSE ASEP/CSEP) or equivalent
- Advanced simulation capability including MATLAB/Simulink/CarSim/UML/SysML
- Advanced electrical system diagnostic and troubleshooting capability, including the creation of schematics, harness drawings, and resolution of common failure modes