sense photonics

Electrical Engineering Technician

We are seeking an experienced, EE Technician for our Research Triangle, NC development center, to be a key contributor to engineering activities aimed at revolutionizing the world of LiDAR systems for autonomous vehicles, UAVs, industrial automation and other applications. You will be a key contributor in system integration, bring up, troubleshooting, and final release of LIDAR systems. You will be responsible for system and subsystem integration, test and debug, which includes high-speed, high-power electrical design, thermal management, mechanical design and software validation. We are looking for a hands-on "doer", who can work on complex projects independently with minimal supervision.

JOB RESPONSIBILITIES

- Perform system and subsystem integration and tests according to work instructions and test plan
- Assemble and test prototype PCBA
- Perform soldering / rework of system components and PCBs
- Perform experiments and tests of LIDAR system with a focus on electronics and system performance according to test plans
- Troubleshoot to component level with solder station, oscilloscope, power supplies, signal generator.
- Perform root cause analysis on complex integrated systems.
- Generate datasets and perform experiments to quantify and validate hardware and software performance.
- Document results, test plans, and present to engineering team
- Collaborate closely with engineering team to test and validate state-of-the-art LIDAR systems.

REQUIREMENTS

- 5+ years of related experience
- Good solder, desolder, rework skills a must.
- Basic understanding of digital and analog circuits, schematics, and layout.
- Strong ability to isolate and debug embedded hardware and software problems.
- Ability to work independently with minimal supervision.
- Good lab and bench practices.
- Team player with strong interpersonal and communication skills.
- Associates degree in Electrical Engineering, related field, or relevant experience.

ABOUT US

We are passionate about building the next generation of LiDAR systems for autonomous vehicles, industrial robotics, UAVs and many other applications. Our core technology – protected by over 200 patents – enables a simple, high-performance, solid state solution, with no moving parts, that can uniquely meet the rigorous performance, reliability and cost requirements of the automotive industry.

Founded in 2016, Sense Photonics has offices in Research Triangle Park, NC, Silicon Valley, CA and Edinburgh, UK. We are backed by leading VC firms and strategic investors and have developed partnerships with leading automotive and robotics customers. We are building an innovative, world-class company that designs and builds the world's best 3D sensors. Sense Photonics is also an equal opportunity employer – all applicants will be given equal consideration.