ULTRA
COMMUNICATIONS
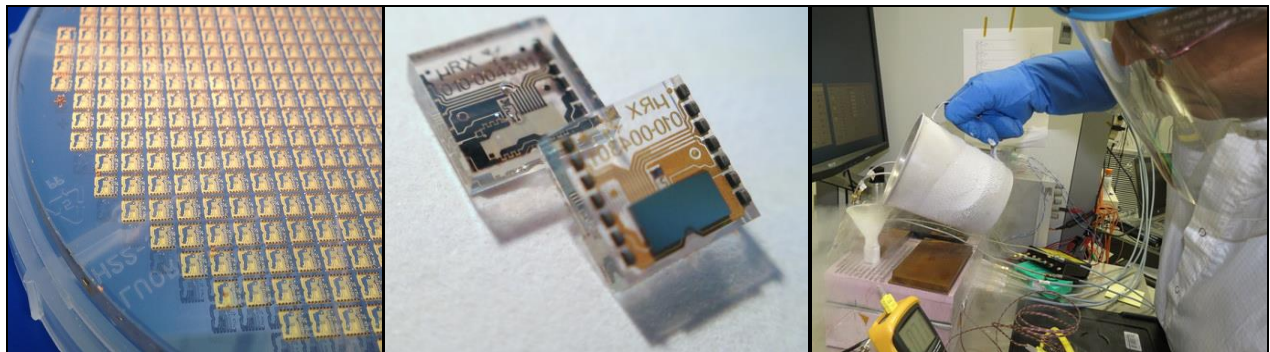
Software/Hardware Engineering Intern

ABOUT ULTRA COMMUNICATIONS

Ultra Communications Inc. designs, develops and manufactures high performance optical interconnect solutions for High Reliability Space, Military/Aerospace, Marine, Industrial and Harsh Environment applications. Their patented designs and processes enable the highest performance, smallest footprint, highest reliability optical solutions available in the industry and are the only Radiation Hardened (Rad Hard) products available, anywhere in the world, for space applications. Located in Vista CA, UltraComm is currently ramping production capability to address their customers high volume product needs.

UltraComm is currently seeking candidates with a passion and desire to be part of an exciting rapid-paced high technology company with excellent opportunities for personal and professional growth. The environment is a unique combination of development lab and production facility with an atmosphere of family and professional camaraderie. If you relish challenges and enjoy creating never before possible products, UltraComm is the place for you.

Position Overview
Reporting to the VP of Engineering, the Software/Hardware Engineer intern will be involved in the development of software and hardware solutions. This position is part of an interdisciplinary team developing fiber optic transceiver modules for harsh environments. The position requires strong technical skills and a hands-on mindset. The candidate must thrive in a dynamic environment, executing on multiple projects simultaneously with the highest degree of efficiency and accuracy.

Essential Duties and Responsibilities:
- Participate in all phases of developing user applications, test software, and firmware.
- Help design, implement, bring up, and troubleshoot board level electronics used in product, demonstration, and test systems.
- Assemble and troubleshoot laboratory test and measurement equipment.
- Carry out manual and automated test and measurement activities.
- Collect and analyze data and share findings in reports and presentations.
- Create documentation related to software, hardware, and analysis activities, both for internal and customer facing uses.
- Provide internal support for production test software and hardware needs.

Job Knowledge, Skills & Abilities:
- Must have a strong grounding in software engineering principles, languages, and algorithms.

- Good understanding of analog and digital electronics.
- Good hands-on electronics, mechanical, and laboratory skills.
- Analytical and critical thinking abilities required to develop creative solutions.
- Strong written and verbal communication skills required to present solutions to internal and external stakeholders.
- Detail oriented ability required to accurately carry our and prepare detailed processes and improvements.
- Strong interpersonal skills required to work effectively with customers, vendors and coworkers.

Technical Knowledge requirements:
- Languages should ideally include C, C#, python, and MATLAB
- Able to read and understand schematics, use component datasheets to understand operation and verify design requirements, and use test equipment (e.g. oscilloscope, multimeter, etc.) to verify and troubleshoot hardware
- Experience with SPI, I2C and RS-232 desired
- Experience with version control software and release management desired (SVN preferred)
- Familiarity with single board computers, such as RaspberryPi and Beagle Bone, including experience with Linux desired
- Familiarity with Windows application development in C# desired

Experience/Education:
- Working towards or recently completed BS or MS in Electrical Engineering, Computer Engineering, or Software Engineering
- Prior experience with hands-on software, hardware, and laboratory projects

Due to our government contracts and ITAR compliance, all candidates must be US Citizens or Permanent Residents.
Please send resume and cover letter to CAREERS@ULTRACOMM-INC.COM*.*
Qualified individuals being considered will be contacted for interview.