



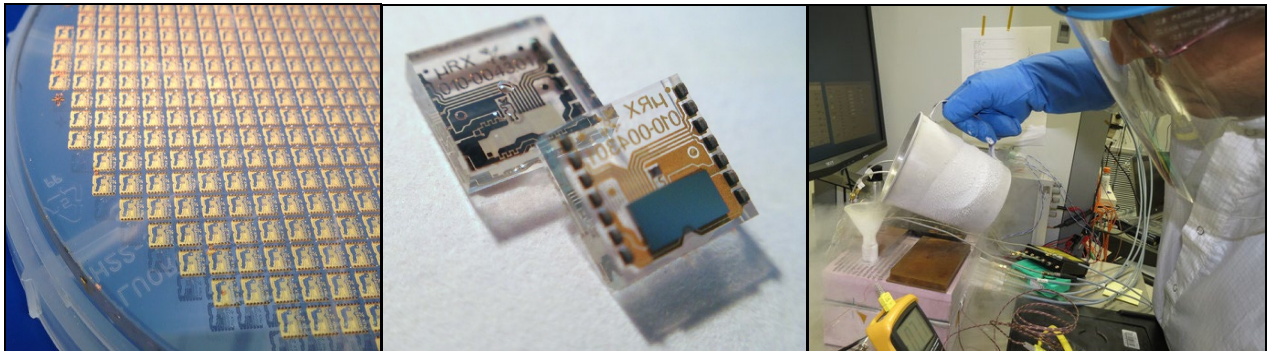
ENGINEERING CAREER OPPORTUNITY

Software Engineer

ABOUT ULTRA COMMUNICATIONS

Ultra Communications Inc. designs, develops and manufactures high performance optical interconnect solutions for High Reliability (Hi-Rel) Space, Mil/Aero, 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. Located in Vista CA, UltraComm is currently ramping production capability to address volume product needs.

The UltraComm work 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 Engineer position envisions product development and manages projects through completion; analyzes, designs and develops software enhancements and new modules; manages development project from initial design through testing while providing strategic management direction. Position requires an exceptionally well trained, dedicated engineer with a strong breadth of experience in all areas of software design and management including software and firmware bare metal projects. Candidate must be able to handle multiple system installation and repair projects simultaneously with the highest degree of efficiency and accuracy. This position is a key member of interdisciplinary team developing fiber optic transceiver modules for harsh environments.

About the General Responsibilities

- Exercises independent judgment and discretion in overall project management by prioritizing, planning and tracking project progress.
- Designs, develops and modifies programs, including prototypes.
- Researches product development options and provides analysis for product direction.
- Consults with internal departments to identify customer needs and include into project objectives.
- Provides support regarding product development to internal departments.
- Directly responsible for full life cycle firmware development, including customer interface.
- Responsibilities include maintenance of existing solutions and development of new products, including firmware revision and release processes.
- Key contributor to board-level design and debug of module electronics and test/evaluation hardware.
- Support production test software and hardware.
- Manages and directs interns and other software developers.
- Sets expectations for interns.



- Participates in the recruitment for department and sets expectation
- Responsible to on-board new staff, integrating them into the department.
- Creates related documentation for all projects assigned.

Job Knowledge, Skills and Abilities

- Must have an expert knowledge of Engineering Software systems as related to the optical field
- Must be able to articulate, communicate and apply sound, proven business practices
- Expert knowledge of Microsoft Office and applications as they pertain to the software environment
- Analytical and critical thinking abilities required to develop creative solutions
- Strong written and verbal communication skills required to present solutions to internal and external sources
- Detail oriented ability required to accurately prepare detailed processes and improvements
- Strong interpersonal skills required to build business and working relationships with customers, vendors and coworkers at all levels of the organization
- Successfully manages multiple tasks in a fast-paced, dynamic and high visibility work environment
- Positively lead a successful team and be an effective team member, having the ability to interchange these roles
- Responsibilities include maintenance of existing solutions and development of new products
- Able to read and understand schematics, use component datasheets to understand operation and verify design requirements, and use test equipment (ex. oscilloscope, multimeter, etc.) to verify or troubleshoot hardware with history of examples.

Technical Knowledge Requirements

- Experience with SPI, I2C and/or RS-232
- Experience with high speed serial communication and/or RF electronics preferred
- Strong background in bare-metal firmware development; experience with 8051 and ARM microcontrollers preferred
- Able to develop firmware in C for embedded microcontroller applications from beginning phase
- History of successfully managing multiple projects
- Experience with version control software and release management (SVN desirable)
- Experience with Silabs C8051 and/or NXP K-Series ARM MCUs desirable
- Experience with firmware for high-reliability application such as avionics, biomedical, automotive, etc.
- Familiarity with software quality processes and software test
- Familiarity with single board computers, such as RaspberryPi and Beagle Bone, including experience with Linux
- Familiarity with Windows application development in C#
- Languages should include C, C#, python, and MATLAB
- Strong written and oral communication skills
- Key member of interdisciplinary team developing fiber optic transceiver modules for harsh environments
- Directly responsible for full life cycle firmware development, including customer interface
- Key contributor to board-level design and debug of module electronics and test/evaluation hardware
- Strong background in board-level hardware development; experience with high speed serial communication and/or RF electronics preferred
- Strong background in bare-metal firmware development; experience with 8051 and ARM microcontrollers preferred
- Experience with firmware for high-reliability application similar to avionics, biomedical, automotive, industries



- Familiarity with software quality processes and software test

Education/Experience

- BS in Computer Science and/or Information Systems required with 6 years' experience required
- MA in Computer Science and/or Information Systems required with 4 years' experience preferred
- Firmware experience in compatible component design relating to board level bare metal required.
- 6 years of project management software experience required.
- Hands on experience working in a start-up company environment is preferred.

Full Time positions are eligible for a robust benefits package including medical, dental, vision, Employee Incentive Plan and 401k with company match. Please send resume and cover letter to CAREERS@ULTRACOMM-INC.COM. Qualified individuals being considered will be contacted for interview.

UltraComm supports a diverse workforce and is committed to a policy of equal employment opportunity for applicants and employees. UltraComm does not discriminate on the basis of age, race, color, religion (including religious dress and grooming practices), sex/gender (including pregnancy, childbirth, or related medical conditions or breastfeeding), gender identity, gender expression, genetic information, national origin (including language use restrictions and possession of a driver's license issued under Vehicle Code section 12801.9), ancestry, physical or mental disability, legally-protected medical condition, military or veteran status (including "protected veterans" under applicable affirmative action laws), marital status, sexual orientation, or any other basis protected by local, state or federal laws applicable to the Company. UltraComm also prohibits discrimination based on the perception that an employee or applicant has any of those characteristics or is associated with a person who has or is perceived as having any of those characteristics.