

Job ID: **RK082411A**
Job Title: Electrical Engineer, Embedded
Degree Requirements: Bachelors Degree in Electrical Engineering
Years of Experience: 1
Type of Position: Direct Hire
Location: Denver, CO Area
Travel Required: Less than 20%

Our client has an **IMMEDIATE NEED** for an Embedded Electrical Engineer in the Denver, CO area. You must bring a Bachelors degree in Electrical Engineering and a minimum of 1 year work experience in industry or applicable project experience in an educational environment. Relocation assistance is budgeted for this position. The client has an excellent benefits package { Medical, Dental and Vision Insurance; 401(K); Flex Spending Accounts; Paid Vacation / Holidays; Short Term and Long Disability; Tuition Reimbursement.

The **MUST HAVE REQUIREMENTS** for this position are:

- * Bachelors degree in Electrical Engineering
- * 1 years work experience in industry or applicable project experience in an educational environment
- * Knowledge of embedded programming design that applies to power supply design
- * Full knowledge & understanding of universal asynchronous receiver / transmitter (UART) data transmission, Inter-IC bus (I2C used to communicate across circuit-board distances), Power Management Bus (PMBus) protocol
- * Experience using microcontroller integrated converter for data acquisition
- * Knowledge of embedded programming methods & practices
- * Understanding of basic state machine design
- * Working knowledge of digital logic design, truth tables, logic symbols, Boolean algebra law
- * Experience using I2C serial EEPROM (Electrically Erasable Programmable Read-Only Memory) as well as other peripherals
- * Knowledge of ANSI-C programming language a must & Microchip assembly language

PLUSSES in this position are:

- * Knowledge of Microchip family of microcontrollers
- * Digital signal conditioning, calibrations of readings, FIR IIR filter design
- * Experience of digital control loop design, i.e. P.I., P.I.D. Hysteretic
- * Understanding of boot-loading
- * Understanding of Checksums, CRC-16, CRC-8, basic information theory
- * Experience with various topologies, and components for power supply design
- * Experience in product development process

The **RESPONSIBILITIES** of this position include but are not limited to:

- * Contributing to power supply development projects (kickoff - manufacturing)
- * Ensure technical integrity product design
- * Communicate technical information with external & internal customers
- * Work in a team environment with technicians or design engineers
- * Ensure design is documented to ISO9001 procedures
- * Ensure the design meet cost, performance & scheduling requirements

If you meet these requirements and wish to be considered for this position, send your résumé to us in a Word document at Resumes@PinnaclePlacementGroup.com mentioning the **Job ID** and the **Job Title** in the subject line of your email.

In your email or cover letter, please provide us a short narrative detailing your experience and expertise as it applies to this position.

Please provide us with your salary requirements.

KEY WORDS: Electrical Engineer, EE, Embedded Design, universal asynchronous receiver / transmitter data transmission, UART, Inter-IC bus, I2C, circuit-board, Power Management Bus, PMBus, integrated converter, data acquisition, embedded programming, basic state machine design, digital logic design, truth tables, logic symbols, Boolean algebra law, I2C, serial, EEPROM, Electrically Erasable Programmable Read-Only Memory, ANSI-C programming, Microchip assembly language, microcontrollers, Digital signal conditioning, calibrations of readings, FIR IIR filter design, digital control loop design, i.e. P.I., P.I.D. Hysteretic, boot-loading, Checksums, CRC-16, CRC-8, basic information theory, power supply design, ISO9001, product design