

# JECTOFR ED DUMPIT

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- Objective** To seek a position in the field of Computer and Electrical Engineering with emphasis on Embedded Systems, Wireless Communication, and Robotics.
- Education** Bachelor of Science, Computer Engineering  
University of California, Riverside June 2004
- Course Work** Assembly Language, Algorithms and Data Structures, Logic Design, Digital Systems, Architecture of Computer Systems, Software Engineering, Computer Networks, Database Management, Embedded Systems, Electronic Circuits.
- Computer Skills** **Operating Systems:** Windows, Windows NT, X-windows (Linux), and Unix.  
**Languages:** 80x86 Assembly, VHDL, C/C++, ORCAD, MatLab, JAVA, SQL, LaTeX, Xilinx, AUTOCAD, and HTML.
- Projects**
- Temperature Sensor Acquisition Module:** Created and implemented a temperature sensor which samples the temperature every second and stores it in the EEPROM using LM75 Temperature Sensor and 8051 Microcontroller.
- The Navigator:** Designed an Autonomous GPS Mobile Platform that navigates through multiple GPS waypoints provided by the user and at the same time avoiding obstacles along the way.
- MicroMouse:** Developed a fully autonomous robotic device, which traverses a maze and finds its center. Used a 68HC12 microcontroller, stepper motor 12V, and modified flood-filled algorithm.
- Transport Layer Protocol:** Programmed an application network interface using User Datagram Protocol (UDP). The program emulates packet losses and uses the Go-Back-Network (GBN) method, running on top of UDP, to recover the lost packets.
- Movie-Vend:** Implemented a database in PostgreSQL. It is consist of Physical Database Design (DB performance tuning using indexes) and Client-Application Development (console application in JAVA from which the functionalities of the system can be executed).
- EV System 380:** Designed and developed an electronic voting system that enables voters to securely and accurately vote. The system is designed to be portable and can be used from smaller scale election processes to a bigger scale election such as presidential election.
- Experience**
- ISCA Technologies**  
Computer/Electrical Engineering Intern  
Working on embedded systems. Implementing different sensors into Texas Instrument MSP430 Microcontroller.
- Leadership**
- Secretary of the Association of Computing Machinery (UCR Chapter)**  
**Secretary of the Institute of Electrical and Electronics Engineers (UCR Chapter)**
- Responsible for making sure that the club is running smoothly and efficiently. Duties includes keeping records of club's membership list, meeting minutes, and making sure that each member of the club is well informed about the upcoming events of the club.
- Project Leader**
- EV System 380: Electronic Voting System**
- Designated as the Project Leader in the creation of EV System 380 Project. Designed the EV System 380 and delegated different responsibilities to the every member of the group in order for the project to be successful.
- Honors and Activities**
- Dean's Honor List  
Member of the Society of Hispanic Professional Engineers (UCR Chapter)  
Member of the American JKA Karate Association (UCR Chapter)