

**The University of Iowa College of Engineering  
Student Development Center/Engineering Professional Development  
Cooperative Education and Internship Program**

**Electrical and Computer Engineering Co-op/Internship Employers  
Employers and Positions, 2005-09**

3M Engineering Intern/Optical Components Program	Austin, Texas
3M Interning with the Electronics division of the SEMS (Software, Electronics, Mechanical, Systems) department of 3M Corporate Research Labs...developing a part of electronics for VOC (volatile organic compound) sensor	Maplewood, Minnesota
3M Software engineering, designing and debugging user interface, troubleshooting	St. Paul, Minnesota
Advanced Services Professional Electrical contractor for Union Pacific...engineering intern...designs, following electrical design standards, and assisting in furthering electrical design standards...provide technical support for employees in the field, throughout railroad yards...across the country	Omaha, Nebraska
Alcoa Area project work, maintenance driven improvements to production line and safety improvements	Bettendorf, Iowa
American Profol Plastic film coatings manufacturer, projects included obtaining a quote for the design, fabrication, and installation for a new transfer and conveying system for plastic resin from railcar to storage silo and finally to production line, other plant engineering capital projects include upgrading corona station, modifying steam hood, and serving as leader of 'Cost Team' from engineering and accounting to identify cost saving initiatives	Cedar Rapids, Iowa
Athena GTX Write programs for microcontrollers, hardware design, and the design of printed circuit boards (PCB's)...develop the hardware and software to implement voice recording and playback	Des Moines, Iowa
Cargill Provide knowledge and advice to maximize use of electronics in plant processes	Cedar Rapids, Iowa
Caterpillar Intern in the Electronics and Connected Worksite Division (E&CWD)... focus on electronics for Caterpillar's large, off-highway mining trucks...assigned to work with a Six Sigma team on Caterpillar's new electric drive truck	Mossville, Illinois
Caterpillar Testing electrical systems for truck-type tractors	Peoria, Illinois
Cerner Corporation Software development and implementation in health care industry	Kansas City, Missouri

Eaton Corporation Engineer intern...design and manufacture contactor based transfer switches	Arden, North Carolina
Eigen Research Computer Scientist at the R&D department reporting directly to the CTO...research and development in the area of new diagnostic product designs, sustaining engineering products and implementations in C/C++...medical image processing, segmentation, registration, image analysis, programming and improvement of existing sustaining products	Grass Valley, California
Epic Systems Software engineering intern	Verona, Wisconsin
Equistar Chemical Maintenance electrical engineering co-op...plant maintenance and engineering...project implementation and documentation	Clinton, Iowa
ESCO Group Power transmission and generation consulting, instrumentation and controls	Marion, Iowa
Federal Aviation Administration Develop Electro-Magnetic Interference (EMI) test plan for newly acquired Instrument Landing System (ILS)	Washington, DC
Fauske and Associates Software development for nuclear industry and electronic component design/test	Burr Ridge, Illinois
Federal Mogul Ignition Products Drawing electrical wiring diagrams on AutoCAD for use by electricians when troubleshooting plant equipment	Burlington, Iowa
Fermi National Accelerator Laboratory Intern/Networking Group of the Beams Division	Batavia, Illinois
Freescale Semiconductor Wireless and Mobile Systems Group intern... design everything in the analog realm that fits into a transceiver, such as amplifiers, PLLs, VCOs, and dividers	Lake Zurich, Illinois
GE Global Research Center Develop Bayesian model-based vessel junction detection algorithm to increase accuracy of lung nodule detection CAD system	Niskaya, New York
Guardian Automotive Process monitoring to map defects and document manufacturing parameters	Morehead, Kentucky
HDL, Inc Associate Software Support Engineer/work with to develop model checking software	San Jose, California
Hamilton-Sundstrand Assist with the design and analysis of a regional jet aircraft electric power system, perform analysis Required for completion of electric system architecture design	Rockford, Illinois
Hancher Auditorium Assistant working on sound projects relating to shows, events, and other performances	Iowa City, Iowa

Harrison Steel Casting Development of Furnace Department Training, initiation of project in furnace department	Attica, Indiana
Hewlett Packard Assist engineers with program testing and projects	Corvallis, Oregon
IBM Co-Op Pre-Prof Software Engineer in the IBM Informix Stress Quality Assurance	Lenexa, Kansas
IBM Hardware design, working on programming in Verilog to design a floating point unit processor, Perl script and other testing for new server manufacturing test and control programs	Rochester, Minnesota
IC-Media Corporation Digital integrated circuit design	Mesa, Arizona
Ingersoll Production Systems Electrical engineering intern at machine manufacturing center	Rockford, Illinois
Innovative Software Engineering Software engineering intern...testing and quality assurance...regression testing	Coralville, Iowa
Intel Writing tests to validate the Device under tests ( DUTs) and also in analyzing output waveforms and debugging DUT errors..the tests are written using specman-e, one of the industry standard HVLs (Hardware Verification Languages)	Folsom, California
Intel Model builder...take each part of the chip, run the tests written by the validation team for each part and then integrate all the part together to build the entire model/structure of the chip	Santa Clara, California
Intermec Develop automated test programs in Visual C++ for FROD readers...flood protection and set-up of temporary facilities	Cedar Rapids, Iowa
ITT Designing testing equipment and electronic enclosures for this equipment...these units are usually meant to test some military weapon system component in support of a different group that is working directly with the weapon system. The other job involves designing targets and limited simulation in support of the in-progress Medium Extended Air Defense System (MEADS)	Huntsville, Alabama
John Deere and Company, Inc. Design of the electric transmission control for prototype vehicle	Moline, Illinois
John Deere Product Engineering Center Upgrade existing desktop tools used for tractor network analysis and design, build, and test a desktop simulator for system-level testing of released software assemblies	Waterloo, Iowa
John Deere Waterloo Works Software engineering intern... develop a simulator using a GUI interface to evaluate a wired remote control for a radio	Waterloo, Iowa

John Deere World Wide Development Engineering Intern with Cab & Electrical team, responsible for world-wide design, development and validation of electrical systems, components, sensors, and software for harvesting vehicles, responsibilities included working with experienced software and hardware engineers to develop/test embedded software for vehicle systems and sub-systems, executing product verification and validation activities for sensors, actuators, controllers and software	Silvis, Illinois
Johnson Controls Engineering Co-op/environmental systems and controls	Cedar Rapids, Iowa
KLA Tencor Build a wafer surface image scan program	Milpitas, California
Leco Corporation Software testing engineering intern	St. Josephs, Missouri
Lightwaves Systems Research and development of software tools for communications industry	Cedar Rapids, Iowa
Littlefuse Engineering project intern...design a new production method for a certain fuse type in the automotive manufacturing department	Des Plaines, Illinois
McDonalds USA IT Business Solution Department of McDonalds Corporate Headquarters... two specific groups for a majority of the summer, one being an application development team and the other a production support group	Oak Brook, Illinois
McKesson Web developer for manufacturing facility	Dubuque, Iowa
Mid-American Energy Power transmission engineering	Cedar Rapids, Iowa
Mid American Energy Substation engineering group intern... new electrical substations are designed, older substations are maintained, and any other situations involving the substations handled	Davenport, Iowa
Mid American Energy Engineering intern...assigned to MEC's Wind Division and am working on the Pomeroy Wind Project...200 million dollar project to build a large scale wind farm in Pocahontas County of western Iowa	Urbandale, Iowa
Motorola Create an accessory for a phone, test flash LEDs and create an I2C test module	Libertyville, Illinois
Motorola Engineering internship in Radio Systems Division	Schaumburg, Illinois
NASA – Glen Electrical engineering research and development intern	Cleveland, Ohio
National Instruments High speed sources programming, create test suite of 50 cases, design of expandable and modular architecture	Austin, Texas

NEC USA Design built in self test circuit for delay fault	Princeton, New Jersey
Northrup Grumman Support for the administration of engineering and other computing systems, exercise and update disaster recovery plans, implementation of six sigma process improvement projects	Rolling Meadows, Illinois
Omaha Public Power Various engineering projects for power generation at public utility	Nebraska City, Nebraska
Procter and Gamble Manufacturing controls and systems projects	Iowa City, Iowa
REU- University of California at Los Angeles Develop a webpage interface for existing CENS tools	Los Angeles, California
REU - University of California at Santa Clara Test and evaluate high speed and high accuracy A/D Converters for astronomy grade CCD controller system	Santa Clara, California
River Cities Engineering Create a central computer system that would be able to monitor and control the distribution of two municipal power stations from one central location	Davenport, Iowa
RLI Insurance Software development process by more conveniently finding and displaying metrics relating to the development process	Peoria, Illinois
Rockwell Collins, Inc. Various projects involving hardware/software development and testing, image analysis, and web development for aircraft and internal applications	Cedar Rapids, Iowa
Rockwell Collins Manufacturing Electrical Engineer Intern, pull data, analyze and make changes to keep production moving and more efficient, getting the data ready for the monthly and weekly Failure Review Board (FRB)	Coralville, Iowa
Sargent and Lundy, LLC Engineering intern with firm that specializes in the design of power plants and power distribution systems... fossil power and nuclear power... working with Power Deliver Services... focusing on the design of high voltage transmission lines and substations	Chicago, Illinois
Seagate Technologies Engineering Intern on Transducer Development Team of hard disc drive manufacturer, mapping material properties of various compositions of alloy for evaluation of alternative, more efficient, compositions	Minneapolis, Minnesota
Siemens Medical Solutions Basic and applied research in medical imaging	Malvern, Pennsylvania
Source Allies Software engineering intern... automate the testing of web site graphical user interfaces	Des Moines, Iowa
Square D Quality and Production Engineering Intern	Cedar Rapids, Iowa

UI College of Engineering Laboratory Assistant/dental simulator project/analyzing and testing results	Iowa City, Iowa
UI Department of Physics Computer Systems and support	Iowa City, Iowa
UI Department of Psychiatry Computer support/software	Iowa City, Iowa
UI College of Engineering CLOG/CBCB Daily processing of sequence data, auditing of status webpages, submission of data to public databases	Iowa City, Iowa
UI College of Engineering GROK Lab Program microcontroller for robot servo motor control	Iowa City, Iowa
UI College of Engineering Human Factors Lab Design software and hardware for instrumented vehicle as part of a human factors research study	Iowa City, Iowa
UI College of Engineering IATL Program a microchip dsPIC to interface with 802.15.4 radio, perform experiments and analyze results	Iowa City, Iowa
UI College of Engineering OPL Engineering and avionics research/application	Iowa City, Iowa
UI Design and Construction Services Engineering projects oversight, inspections, quality assurance and compliance	Iowa City, Iowa
UIHC Neurology Radiological research and studies	Iowa City, Iowa
USAF ROTC National Internship Design and manufacture reusable frame to wrap carbon fiber	Kirtland AFB, New Mexico
Vida Diagnostics Develop, test, and document medical image processing software	Coralville, Iowa
Vital Images, Inc. Responsible for design, code, test and documentation of imaging software	Plymouth, Minnesota
Winegard Construction Write code for embedded applications...work on different development boards which use different RTOS(Real time operating systems)	Burlington, Iowa
ZF Sales and Service Specializes in the assembly, remanufacture and repair of automotive driveline and chassis components...assigned to aid the Off-Road department in configuring and purchasing a field service data logger and to also design and build a transmission electronic control unit test bench	Vernon Hills, Illinois