

## Senior Design Project

Coordinator: Dr. George Kusic

*A Software Analysis Tool to Aid in Tissue Differentiation of Brain Tumors*

**Dara M. Kusic**

Faculty Advisor: Dr. Bob Boston

*Assisting Pitt Course Scheduling*

**Matthew A. Foster**

Faculty Supervisor: Dr. Ahmed Amer

*Banking Software*

**Istiaque (George) Ayub**

Faculty Supervisor: Dr. Panos Chrysanthis

*Electronic Furniture Training Alarm*

**Derrick G. Berad**

**Fred Chenot**

**Christopher D. Stremple**

Faculty Supervisor: Dr. Bob Boston

*Enabling Terabit/sec Intrusion Detection and Prevention*

**Tim N. Tournay**

Faculty Supervisor: Dr. Ray Hoare

*Feasibility Analysis of RFID Coins*

**Samuel J. Dickerson**

**Dhaval V. Mehta**

Faculty Supervisor: Dr. Marlin Mickle

*Feasibility of a Hardware Implementation of Hyperspectral Data Compression*

**Kevin O'Connor**

Faculty Supervisor: Dr. Ray Hoare

*Flat Chat System (FCS)*

**Kai Liao**

Faculty Supervisor: Dr. Ray Hoare

*Instant Survey and Chat*

**Nawezi N. Kalufando**

Faculty Supervisor: Dr. Ray Hoare

*Investing Now Database Project*

**Roosevelt L. Bryant**

**Stacy A. Murphy**

Faculty Supervisor: Dr. Panos Chrysanthis

*Medication Management System for Residential Care Services*

**Isaiah A. Mobit**

Faculty Supervisor: Dr. Ray Hoare

*PennDot Construction Data Warehouse*

**Gregory R. Fouch**

**Nathan E. Milliren**

**Nicole S. Paff**

Faculty Supervisor: Dr. Ron Hoelzeman

*Prongless Outlets*

**Anthony A. Hubbard**

**Christopher H. Hurley**

**David J. Tyson**

Faculty Supervisor: Dr. George Kusic

*R-F Voltage Doubler*

**Brett Shebish**

**Shawn P. Jonnet**

Faculty Supervisor: Dr. Marlin Mickle

*Testing and Evaluation of RFID Equipment*

**Yewande A. Adeyemi**

**Kelli Ireland Pachuta**

Faculty Supervisor: Dr. Marlin Mickle

*The Optical Microphone*

**Michael P. Buric**

**Brian A. Fenn**

**Richard K. Wojtaszek**

Faculty Supervisor: Dr. Dietrich Langer

*Wired Equivalent Privacy (WEP) Hardware Architecture*

**Bryan A. Brady**

**Robert V. Santoro**

Faculty Supervisor: Dr. Ray Hoare

*Wireless Smoke Alarm Communication Technologies*

**Timothy J. Iman**

**Dale R. Liszka**

**Jacob J. Repanshek**

Faculty Supervisor: Dr. Marlin Mickle

## Engineering Project

*Small, Low-Cost, Lightweight Electric Generator*

**Filip Gieszczykiewicz**

Faculty Supervisor: Steve Jacobs

## Embedded Systems

Faculty Advisor: Dr. Tom Cain

*Temperature Sensing System*

**Jonathon E. Puff**

**Kurt F. Wescoe**

## VLSI

Faculty Advisor: Dr. Ivan Kourtev

Adam C. Andrews

Peter L. Bartolomeo

Alex J. Bevely III

Bryan A. Brady

Daniel J. Butor

William E. Casey

Lucas J. Cashdollar

Samuel J. Dickerson

Douglas P. Hixson

Jeffrey R. Israel

Michael J. Kowalchuck

Dhaval Mehta

Tushar D. Nene

Robert V. Santoro

Allan M. Shearer

Paul J. Vollmer

James R. West

Nick Berlin

Shelby Chun

Charlie Greene

Xiaoping Hu

Paul Roche

Yushan Song

Jonathan Lazarro

Wen-Chyi Lin

Randy Maruschock

Greg Okopal

## IE 1061

*Designing Hand Tools (Human Factor Engineering)*

**Anamika Kapadia**

Faculty Supervisor: Dr. Mary Besterfield-Sacre

## Product Realization (ENGR 1050)

*Design of Push-Button Light Switch*

**John R. Brancolini**

**Jorge Goycoolea**

**Raymond J. Lozano**

Faculty Supervisor: Dr. Bopaya Bidanda

*Insulin/Medicine Cooler*

**Ludmila Doroshkevich**

**Abraham Matthew**

**Eric J. Pfister**

**Nicholas M. Stabinsky**

Faculty Supervisor: Dr. Roy Marangoni

*Mass Immunization Device*

**Shane Messina**

Dr. Marlin Mickle, Dr. Mike Lovell

*RAPID Network*

**Amber N. Barner**

**Geoffrey B. Dobson**

**Susan L. Shaffer**

Faculty Supervisor: Eric Reiss, Cam Hick

*RFID Hearing Aid Locator*

**Calvin Lee**

**Habib Benjamin**

**Larry Montgomery**

**Mike Samella**

**Ryan Frenz**

Faculty Supervisor: Dr. Marlin Mickle, Andy Holmes

*Wireless RF Keypad*

**Daniel E. Ference**

**Scott C. Sinclair**

Faculty Supervisor: Dr. Marlin Mickle

## Cooperative Education

Co-op at US Steel  
*United States Steel*  
**Amber Barner**

Electrical Engineering at NOVA Chemicals and Mine Safety Appliances  
*NOVA Chemicals, Mine Safety Appliances*  
**Pete Bartolomeo**

My Experiences at Eaton/Cutler-Hammer  
*Eaton/Cutler Hammer*  
**Derrick Berad**

COOP with ANSYS, Inc  
*ANSYS, Inc*  
**Bryan Brady**

My Co-Op Experience at Eaton/Cutler Hammer and J&L Steel  
*Eaton/Cutler Hammer; J&L Specialty Steel*  
**Lucas Cashdollar**

Marconi/Compunetix CO-OP Experience  
*Marconi, Compunetix*  
**Samuel J. Dickerson**

Westinghouse  
*Westinghouse Electric Company*  
**Matthew Foster**

J&L Specialty Steel Inc  
*J&L Specialty Steel*  
**Doug Hixson**

My COOP Experience  
*Advanced Micro Devices*  
**Michael Hutchinson**

The Tactical Electronic Warfare Division at NRL  
*US Naval Research Laboratory*  
**Damon Kuskie**

Marconi Co-Op  
*Marconi*  
**Dhaval Mehta**

Ansys 7.0 GUI  
*ANSYS, Inc*  
**Andrew Milbower**

Chip Design with AMD  
*Advanced Micro Devices*  
**Kurt Mohlman**

Co-op: Marconi Communication and School of Engineering  
*Marconi Communication, School of Engineering*  
**Wai-Ting (Johnny) Ng**

My COOP Experience at FedEx Ground  
*FedEx Ground*  
**Kelli Ireland Pachuta**

Aerotech-Dedicated to the Science of Motion  
*Aerotech*  
**David Sammel, Jr**

Co-Op with Westinghouse Electric  
*Westinghouse Electric Company*  
**Rob Santoro**

Efficiency Analysis  
*J&L Specialty Steel*  
**Scott Slivko**

Development, Testing and Computer Support for TI's Code Composer Studio IDE  
*Texas Instruments*  
**Jason Smathers**

The Coop Experience  
*Verizon Wireless, Mitsubishi Electric Power*  
**Brenda Stahlman**

Co-op at US Steel  
*United States Steel*  
**Bentz Tozer**

Naval Research Laboratory  
*US Naval Research Laboratory*  
**Paul Vollmer**

Ansys, Inc  
*ANSYS, Inc*  
**James R. West**

COOP Experience at AMD  
*Advanced Micro Devices*  
**Adrienne Wray**

## Panther Electric Vehicle

Rashida A. Doyle  
Steve Grubisa  
Ronald J. Hardgrove III  
Calvin N. Lee  
Tim McHugh  
Kevin G. O'Connor  
Judith A. Sciuлло  
James E. Szatala  
Bentz Tozer



UNIVERSITY OF  
PITTSBURGH

*Electrical Engineering*  
*Computer Engineering*

Fall Term 2002  
Senior Design  
Exposition and  
COOP Poster Fair

Friday, December 6, 2002  
2 pm - 4 pm

Third Floor  
Benedum Hall of  
Engineering