

RFID & Metal: Tagging Surgical Instruments
Project Supervisors: Marlin Mickle and Tom Cain
Kyle Copeland
Brandon Kemp
Steve Rutkowski

RFID Instrument Tagging
Project Supervisor: Marlin Mickle
Andrew Latus
Yuri Merrick
Dung Nguyen

Surgical Sponge Identification
Project Supervisors: Marlin Mickle and Tom Cain
Femitope Ogundele
Meredith White

WiPort Embedded Device Server
Project Supervisor: Marlin Mickle
Andrew Dreistadt
John Hancock

Cooperative Education

Can You Hear Me Now?
Verizon Wireless
Christine Barger

US&S
Union Switch and Signal
Igor Berkovich

ANSYS
ANSYS, Inc
Christopher Collins

Naval Research Labs
Naval Research Laboratory
Elliot Cooper-Balis

Compunetix
Compunetix, Inc
Daniel Feizet

Co-op at Siemens-Westinghouse
Siemens-Westinghouse Power Corp.
Chris Gallagher

Co-op at a Coke Plant
US Steel, Clairton Works
Adam Goldbach

Experience at Medrad
Medrad, Inc.
Melanie Golembiewski

USX
USX
Brandon Gromis

PennDOT
PennDOT
Joseph Hale

EE Co-op at Weyerhaeuser
Weyerhaeuser Paper Mill
Sulaiman Harris

ANSYS
ANSYS, Inc
Matthew Hensinger

ANSYS
ANSYS, Inc
Matthew Hicks

ANSYS
ANSYS, Inc
Colin Ihrig

Co-op Experience at NS
Norfolk Southern
Kevin Johnson

PennDOT
PennDOT
Yuri Merrick

Windows Software Engineering at Ansys, Inc
Ansys, Inc.
James Wiltz

*Summer Graduate (not presenting)
†Graduate Team Member



UNIVERSITY OF
PITTSBURGH

*Electrical &
Computer Engineering*

Fall Term 2004
Senior Design
Exposition and
COOP Poster Fair

Friday, December 10, 2004
1 pm - 3 pm

Third Floor
Benedum Hall of
Engineering

Senior Design and Engineering Projects

Adjustable Embedded Lighting Controller and Monitor

Project Supervisor: Tom Cain

Juli-Ann Marsala

James Wiltz

Light Measurement and Control System

Project Supervisor: Tom Cain

Kenneth Klucznik

Detecting Vibrations with Fiber Sensor

Project Supervisor: Kevin Chen

Anderson Hurley

Mpitulo Kala-Lufalwabo

Robert Rencewicz

Brian Rossi

Photonic Crystal Growth on Fiber

Project Supervisor: Kevin Chen

Hansen Brenkus

Zsolt Poole

Food Services Meal Tracking System

Project Supervisor: Shalom Cohen

Alexandr Andreyev

Justin Fiore

Stephen Garich

Scott Kehr

Anthony LoGreco

Benjamin Slavin

16-Bit Carry Look-Ahead Adder: Benefits of a Dual Voltage Supply

Project Supervisor: Ivan Kourtev

Kenneth Cracraft

Nisheet Gupta†

Rachel Harris

16-Bit Dual Power Supply Carry-Skip Adder

Project Supervisor: Ivan Kourtev

Scott Fisher

Justin Volz

32-Bit Priority Encoder Using Dual Power Supply for Power Optimization

Project Supervisor: Ivan Kourtev

Elliot Cooper-Balis

Matthew Hensinger

Bhavdeep Singh†

A Dual-Voltage 8-Bit Array Multiplier

Project Supervisor: Ivan Kourtev

William Egan

John Sanders

Jonathon Worek

Dual Vdd Wallace Tree Multiplier

Project Supervisor: Ivan Kourtev

Yungcheng Ma

Joel Martin†

Viet Pham

Single and Dual Supply Parallel Prefix Adder Circuit

Project Supervisor: Ivan Kourtev

Joshua Heil

Ethan Sieg

Playing Card Recognition System for Casino Blackjack

Project Supervisor: Howard Kuhn

Brian Berke

Michael LoPresti

Erik Tomlin

Matthew Wirginis

Windshield Ice Scraper

Project Supervisor: Howard Kuhn

John Charley Schweizer

Bryan Kowalski

Shawn McVay

Mohamed Dheen

Harnessing Horsepower in Your Garage via Distributed Power Inversion and Conversion

Project Supervisors: Howard Kuhn and Jeffery Williams

Kaitlyn Hrdlicka

eCA (electronic Course Advisor)

Project Supervisor: Alexandros Labrinidis

Allison Roberts

Jeremy Walker

Bethany Zokaites

Bumpy Bar Coder

Project Supervisor: Frank Marx

Christopher Bright

Brandon Gromis

Curt Wallace

Threaded Pipe Laser Measuring System

Project Supervisor: Frank Marx

Aaron Chruscial

Design Automation of Analog Circuits via Evolutionary Algorithms

Project Supervisor: Steven Levitan

Robert Buckingham

Paul Giampaolo

Joseph Misiti

Lisa Myers

Bell's Palsy

Project Supervisor: Marlin Mickle

Chad Baloga

James Leister*

Lisa Myers

Ron Yorrick

Checkout RFID

Project Supervisor: Marlin Mickle

Josh Banyas

Tameka Hunter

John Parham

Michael Sacks*

Performance Evaluation of RFID Tags

Project Supervisor: Marlin Mickle

Jennifer Geinzer

Chuba Oyolu

Leigh Renninger

Product Realization for ClearCount Medical Solution

Project Supervisors: Marlin Mickle and Tom Cain

James Bykoski

Patrick Clark

Nghia Le

Pritham Prabhakher

Reed Relay

Project Supervisor: Marlin Mickle

Denny Knorr

Judy Sciallo

RF Power Harvesting (Parkinson's Treatment)

Project Supervisor: Marlin Mickle

Chris Gallagher

Thomas McLaughlin

Brandon Polomoscanik