

## Cooperative Education

*Software Testing at ANSYS*

ANSYS, Inc

**Robert Noble**

*Co-op at Argon ST*

Argon ST, Inc

**Nicholas Leonard**

*Fyrite Insight Combustion Analyzer*

Bacharach, Inc

**Doug Replogle**

*Co-op with BAE Systems*

BAE Systems

**Brandon Welt**

*Carbon Steel Inspection, Inc - A Three*

*Rotation Co-op*

Carbon Steel Inspection, Inc

**Wesley Terek**

*Co-op with Carbon Steel Inspection*

Carbon Steel Inspection, Inc

**Eric Treffeisen**

*Process and Automation Co-op*

*Engineer*

CEMEX

**Jay Johnson**

*Co-op at Compunetix*

Compunetix, Inc

**Joseph Cappeta**

*Co-op with Compunetix*

Compunetix, Inc

**Kevin Shaffer**

*Curtiss-Wright Electro-Mechanical*

*Division*

Curtiss-Wright EMD

**James Dameron**

*Water Plant Computer Design*

Emerson Process Management

**Anthony Talak**

*Co-op Project Review*

FedEx Ground

**Sami Al-Qaisi**

*Programming RFID*

FedEx Ground

**Joseph Gualtieri**

*GE Fanuc: The Experience*

GE Fanuc Intelligent Platforms

**Thaddeus Czauski**

*Design Engineering for the Metal*

*Industry*

Hatch

**Derek Anderson**

*Electrical Engineering Co-op in*

*Medrad's CV-SBU*

Medrad

**Patrick Duffey**

*Mobile SQA*

Vocollect

**Ryan Skoog**

UNIVERSITY OF PITTSBURGH

SWANSON school of engineering

**electrical &  
computer  
engineering**

**Senior Design Expo  
and  
Co-op Poster Fair**

**Friday  
December 5, 2008  
1:00 p.m. - 3:00 p.m.**

**3rd Floor Labs  
Benedum Hall**

Pitt ECE gratefully acknowledges Norfolk Southern Corp. for their support of Senior Design.



## **Senior Design Projects**

### *Affordable Home Automation*

Project Supervisor: Dr. Ronald G. Hoelzeman

**Sami Al-Qaisi**  
**Joseph Gualtieri**  
**Randy Schultheis**  
**Ryan Skoog**

### *BeagleBoard and Embedded Linux*

Project Supervisor: Dr. J. Robert Boston

**Keaton Brett**  
**Luciana Briozzo**  
**Beymar Zurita**

### *Conference Paper Submission/Management System*

Project Supervisor: Dr. Dan Budny

**Kevin Shaffer**

### *Design of High Voltage and High Frequency Amplifier for Sorting Carbon Nanotubes*

Project Supervisor: Dr. Guangyong Li

**Michael Toussaint**  
**Ron Weaver**  
**Ethan Woo**

### *Electric Transformer Bypass*

Project Supervisor: Dr. Gregory Reed

**Hunter Grove**  
**Wesley Terek**

### *Embedded Signaling for Novel Midi Controllers*

Project Supervisor: Dr. Steven P. Jacobs

**Thomas Cox**  
**Patrick Duffey**  
**Doug Replogle**

### *High Speed RFID Capture*

Project Supervisor: Dr. Marlin Mickle

**James Dameron**  
**Ryan McCarty**  
**Eric Treffeisen**  
**Brandon Welt**

### *Investigation of Ga Ion Implantation for the Purpose of Forming Self-Assembled Ga Islands*

Project Supervisor: Dr. Jennifer Gray

**Gregory Hartman**

### *LAMP: Loop Mediated Isothermal Amplification*

Project Supervisor: Drs. Howard Kuhn and Roy Marangoni

**Joshua Green**                      **Emily Engel (BIOENG)**  
**Nasif Hossain**                      **Kevin Fischer (IE)**  
**Ashley Robison**

### *Mitsubishi UPS Network Monitoring Software*

Project Supervisor: Drs. Howard Kuhn and Roy Marangoni

**Derek Anderson**  
**Shayne Bell**  
**Keaton Brett**  
**Lee Morrison**  
**Beymar Zurita**

### *New Medical Electrode for Measuring/Recording the Human Biological Signal*

Project Supervisor: Dr. Mingui Sun

**Tuan Nguyen**

### *Pill Minder*

Project Supervisor: Dr. Roy Marangoni

**Mark Logan**

### *Portable Electric Theater*

Project Supervisor: Drs. Howard Kuhn and Roy Marangoni

**Derek Fisher**                      **Alexander Damewood (CE)**  
**Justin Grover (IE)**  
**Brian Liszka (IE)**  
**Nicole Stadelman (IE)**

### *Proximity Sensor Alarm System*

Project Supervisor: Dr. Zhi-Hong Mao

**Jason Jones**  
**Robert McBeth**  
**Chris Nickel**  
**Albert Oduho**

### *Remote Temperature Monitoring of Aerotech High Precision Stages*

Project Supervisors: Drs. Howard Kuhn and Roy Marangoni

**Thomas Chiarella**                      **Brian Fink (ME)**  
**Jeffrey Jones**  
**Stephen Radage**