

## Cooperative Education

Advanced Integration Group  
*Advanced Integration Group*  
**Tim Muckian**

ANSYS, Inc  
*Co-op in the ANSYS Corporate Testing Department*  
**Noah Gerber**

*A Next Generation Framework*  
**William Tyler Krampe**

*Co-op at ANSYS*  
**Ryan Murray**

*Four Rotations at ANSYS*  
**Brian Oswald**

*My Co-op at Ansys*  
**Becky Vereb**

Emerson Process Management  
*Co-op at Emerson Process Management*  
**Daniel Mohr**

FedEx Ground  
*Technology Research*  
**Don Koenig**

First Energy  
*Real Time Online Monitoring of Control Instrumentation*  
**Andrew Crotty**

K&M Wireless  
*A Co-op with K&M Systems*  
**Abhijit Bhattacharjee**

*Wireless Contracting with K&M Wireless*  
**Michael Gitomer**

MEDRAD  
*My Role in Innovations at MEDRAD*  
**Aaron Hughes**

Union Switch & Signal  
*Working at Union Switch & Signal*  
**William Radomski**

*Co-op at Union Switch & Signal*  
**Sean Dowhy**  
**Jennifer Radebaugh**

UNIVERSITY OF PITTSBURGH

*school of engineering*

**electrical  
& computer  
engineering**

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

**Friday  
December 7, 2007  
1:00 p.m. - 3:00 p.m.**

**3rd Floor Labs  
Benedum Hall**

ECE/COE 1896 - Senior Design Project

*C# Graphical Interface for Electrical Networks*

Project Supervisor: George Kusic

**Matt Luttrell**  
**Ryan Mulkerin**

*Cost of Constructing and Operating a Wind Farm*

Project Supervisor: George Kusic

**Greg Mervos**

*Enhanced Diagnostic Agent Bolus Sharpness*

Project Supervisor: Zhi-Hong Mao

**Aaron Hughes**  
**David Huppmann**

*Electrical System Design for a Conceptual Ranch House*

Project Supervisor: George Kusic

**William Tomlinson**

*Electromagnetic Catapult*

Project Supervisor: George Kusic

**Matt Dzadovsky**  
**Justin Low**  
**David Lucas**

*High Frequency RFID Tag Analysis*

Project Supervisor: Marlin Mickle

**Robert Pfender**  
**Richard Saporito**  
**Robert Telatovich**

*Interfacing With Accelerometers*

Project Supervisor: Don Chiarulli

**Vanessa Anderson**  
**Carlos Suarez**

*Novel Power Supply for Wearable Miniature Electronic Devices*

Project Supervisor: Mingui Sun

**Steve Kubis**

*Percussion Frequency Measurement and Automatic Tuning*

Project Supervisor: Alex K Jones

**Luke Cioffi**  
**Matt Yourd**

*Phased Antenna Array Steering for 440Mhz Repeater*

Project Supervisor: Steve Jacobs

**Jason Harchick**  
**James Rapach**  
**John Zoldak**

*Radar Algorithm Processing Port and Benchmark on the Cell Broadband Engine*

Project Supervisor: Don Chiarulli

**Nicolas Moore**  
**Sam Sanders**

*A Small, Cost-Efficient Power Supply Designed Without Transformers*

Project Supervisor: Zhi-Hong Mao

**Brian DePaul**  
**Joshua Laskey**  
**David Thurston**

*Solid State Lighting and Control*

Project Supervisor: Bill Stanchina

**Alex Carroll**  
**Andrew Gordon**  
**Dan Kheloussi (EPHYS)**  
**Eric Policaro**

*Thought Decoding System*

Project Supervisor: Heung-no Lee

**Jake Denne**  
**Ryan Sloan**  
**Tewodros Tesfaye**

*Tuning Single Frequency Radiation Via Non-linear Optics*

Project Supervisor: Kevin Chen

**Mike Gitomer**  
**Anton Mobley**

ECE/COE 1898 - Engineering Project

*Interactive Sensor Module Display, An Educational Tool for ME 1049*

Project Supervisor: William W Clark

**Jeremy R Romeiko**

*Tarantula 1.0, A Biologically Inspired Distributed Control Architecture for a Multilegged Mobile Platform*

Project Supervisor: Tom Cain

**Jeremy R Romeiko**

ENGR 1050 - Product Realization

*Cutting Tool Data Collection System for Kennametal*

Project Supervisor: Roy Marangoni

**Michael Chrin**  
**Brenda Keitzer**  
**Adam Tanski (ME)**  
**Adam Wick (ME)**

*RFID Employee Tracking System*

Project Supervisor: Mike Lovell

**Erika Bradley**  
**Craig McDaniel**  
**Tim Muckian**  
**Ryan Murray**

*Stridekick: The Ultimate Shoe Life Monitor*

Project Supervisor: Mike Lovell

**Steve Rigatti**  
**Eugene (Max) Kilpatrick**  
**Kaylee Muller (IE)**  
**Sean Zyra (IE)**

ECE 1192 - VLSI

*An 8-bit Kogge-Stone Adder*

Project Supervisor: Michael Bails

**Brian Oswald**