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## Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 22, Number 7, May 2006

Wright State University College of Engineering and Computer Science

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## 2005-2006 Outstanding Seniors Announced

Each year CECS honors an outstanding senior in each major. The students are selected for their scholastic achievements, as well as their service to the College, the University, and the community. All of these Outstanding Seniors were honored at the college Awards and Recognition Ceremony on June 9, 2006. The Outstanding Seniors for the 2005-2006 academic year are:

**Daylond Hooper – Outstanding Student in Biomedical Engineering**

Daylond has attained a 3.681 cumulative grade point average at Wright State. While here, he has worked as a student worker in the department and has helped it and its faculty in countless ways over the past several years. He was able to update a major database for the department and also helped revise the department's Honors program. Daylond was also instrumental in reviving the student chapter of BioMedical Engineering Society at Wright State. He completed his Honors thesis in medical imaging and has recently been accepted into the Ph.D. program. He was awarded a Dayton Area Graduate Studies Institute Research Fellowship, carrying a stipend of \$27,000, plus tuition, to study at any of the 3 DAGSI universities: Wright State, the University of Dayton, and the Air Force Institute of Technology

**Grant Kelly – Outstanding Student in Industrial and Systems Engineering**

Grant has performed very well in his engineering courses achieving

a 3.4 cumulative GPA. His senior design project involved working with Delphi Automotive Systems' Kettering Operations. In the project, Grant's data gathering and analysis using Industrial and Systems Engineering tools helped streamline and improve the efficiency of production control and logistics operations. Grant has achieved this success while maintaining a significant work schedule at React Incorporated over the last few years. He was also a member of the Wright State chapter of the Institute of Industrial Engineers.

**Daniel Garling – Outstanding Student in Computer Engineering**

Before coming to Wright State, Daniel was home schooled during high school. He managed to volunteer more than 1,100 hours at COSI in Columbus as a guide in its i/o technology exhibit. As a National Merit Finalist, Daniel received the Wright State National Scholarship, which covered his tuition, room and board, and books. While at Wright State, he has maintained a perfect 4.0 grade point average while taking the architecture electives in computer engineering program. He will graduate tomorrow as a General Studies Honors Scholar and with summa cum laude Latin honors.

Since June 2004, Daniel has worked at ITCN as a junior hardware engineer. During his co-op, he has worked with Field-Programmable Gate Arrays and DSP programming and has also designed two circuit boards for their SystemTrace product, which monitors and records bus traffic

on data busses. He has accepted a full-time position with ITCN and will be starting later this month.

**Benjamin Sutcliffe – Outstanding Student in Computer Science**

Ben came to Wright State with the Valedictorian/Salutatorian Scholarship and has maintained a perfect 4.0 grade point average while he has been here. Ben has co-oped at DRS Intelligence and Avionic Solutions. His co-op included porting MS Windows software to Linux, developing software to support digital signal processing hardware, and developing a product's graphical configuration utility. He is an active member of his church community where he sings in the choir, is active with the youth group and the construction of a new meeting building.

*continued on page 2*

College of  
Engineering  
and  
Computer  
Science  
NEWS

June 2006  
Volume 22, No. 8

VISIT US ON THE WEB AT:  
[www.engineering.wright.edu](http://www.engineering.wright.edu)

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# FACULTY FACTS

Below is a list of all new grants awarded within the College of Engineering and Computer Science, as well as other recent accomplishments by our faculty.

**Goshtasby, A. Ardeshir (CSE)**

*Probe Assisted, PET/CT Guided Surgery for Colon Cancer*  
Ohio State University  
9/1/05-8/31/06.....\$56,128

**Goshtasby, A. Ardeshir (CSE)**

*Design of a Persistent Agile Airborne Target Tracking System*  
Department of Defense, Air Force, Air Force Research Laboratory  
7/1/05-6/28/09.....\$50,000

**Menart, James A. (MME)**

**Stanfield, Scott (MME)**  
*Spectroscopic Measurement of Plasma Parameters for MHD Control of Plasma Flows*  
DAGSI  
6/1/05-5/31/06.....\$2,881

**Narayanan, Sundaram (BIE)**

**Reynolds, David B. (BIE)**  
*Evaluation of Cushion Comfort for Air Force Crew Stations*  
General Dynamics  
1/3/06-9/3/06.....\$5,000

**Rizki, Mateen M. (CSE)**

**Tamburino, Louis A (CSE)**  
*Identification of Biomarkers using Machine Learning Algorithms*  
Oak Ridge Institute for Science and Education (ORISE)  
12/1/05-11/13/06.....\$42,000

**Thirunarayan, Krishnaprasad (CSE)**

*Metadata for Timelining Events*  
LexisNexis  
2/15/06-12/31/06.....\$78,724

*continued from page 1*

**Mark Arlinghaus – Outstanding Student in Electrical Engineering**

Mark grew up on a farm in Petersburg, KY where he graduated from Conner High School in 2001 as the salutatorian in his senior class of 234 students.

At Wright State, Mark is actually double majoring in Mechanical Engineering and Electrical Engineering and has been able to keep up a 3.93 GPA. In 2003, he participated in the Engineering Leadership Institute. This year, Mark took 1st place in the 2006 IEEE Dayton Section's Student Paper Competition and 2nd place in the IEEE Region 2 Competition held in Philadelphia, Pennsylvania. Mark, along with 10 other students, designed an autonomous lawn mower and competed last weekend in the 3rd Annual ION Autonomous Lawn Mower Competition. Mark has also been selected by the Dayton Section of IEEE as the Outstanding Student in Electrical Engineering at Wright State this year.

**Dusty Phelps – Outstanding Student in Engineering Physics**

Dusty has maintained a 3.9 GPA while at Wright State. He has been the vice president of the local chapter of Society of Physics Students and has been inducted into Sigma Pi Sigma, the physics honor society. While pursuing his degree, he was awarded the Dow Chemical Engineering Scholarship and was the recipient of the Merrill Andrews Memorial Scholarship. Dusty is currently working on his senior project in collaboration with a team at the Air Force Institute of Technology designing the Matlab® software to analyze plume formation in pulsed laser deposition of thin film superconducting materials. This signal processing of high-speed video data during material deposition will yield a tool to be used by the scientist to optimize formation of thin film superconductors. Dusty plans to continue his education when he graduates and is looking at institutions that offer Ph.D. programs in applied physics.

**James Ryan – Outstanding Student in Materials Science and Engineering**

James joined Wright State in the fall of 2001 after graduating from Dayton Christian High School as its valedictorian. While at Wright

State, James has received the Valedictorian scholarship, the Isaac Weiss Memorial scholarship, and the materials engineering departmental scholarship. James is a member of the Tau Beta Pi engineering honor society and has participated in the Dean's Leadership Institute. He has also been actively involved in the Campus Crusade for Christ here at Wright State.

James has worked at Wright-Patterson Air Force Base in the Polymers Branch of the Materials Manufacturing Directorate. He has worked with Wright-Patterson engineers characterizing new compounds, constructing high-vacuum systems, and working with computers utilizing modern computational chemistry methods. His instructors and employers find him strongly motivated, capable of understanding tough scientific material, and extremely pleasant to work with.

**Michael Corbett – Outstanding Student in Mechanical Engineering**

Mike has been among the top academic performers in the Mechanical Engineering program throughout his undergraduate career at Wright State University, where he has earned a cumulative grade point average of 3.90. Mike has continued the academic excellence he established at Central Catholic High School in New Philadelphia, Ohio where he was also an Eagle scout. Beyond his attention to coursework, Mike is active in campus activities. He has served as a Director in the Wright Engineering Council for two years, has been active in the Tau Beta Pi Engineering Honor Society, and has supported Wright State's Trebuchet competition as a volunteer.

Mike has gained substantial engineering and research experience through his internships at the Air Force Research Laboratory's Materials and Propulsion Directorates as well as through his leadership in the high altitude balloon project. This past April, Mike competed in the AIAA Regional Student Conference and won 1st place in the undergraduate student contest with his presentation "High Altitude Balloon Flight Path Prediction." In addition, Mike is an initial recipient of the Air Force's SMART scholarship program. He is an excellent example of the high-caliber engineering students being educated at Wright State University.

***Congratulations!***

# EMPLOYMENT OPPORTUNITIES

## SOCHE Student Research Program

Research opportunities at  
Materials Lab and AFIT at WPAFB

*Flexible work schedules, e.g., 12-14 hrs. wk. academic year & 40 hrs. wk. summer; full-time alternating terms; or 20 hrs. wk. year round - we will work with you!*

*Career related work experience - state-of-the-art labs*

*Earn while you learn (Soph. \$12.65 hr; Jr. \$14.25 hr; Sr. \$15.70 hr; Grad. \$19.35 hr; PhD \$23.35 hr)*

*Undergraduate to graduate students*

*Degree seeking students in good standing*

***Must be a U.S. Citizen***

*No experience necessary*

The SOCHE Student Research Program is accepting applications for positions at WPAFB for the following majors:

**Bio-Medical Engineering, Chemistry, Computer Science, Electrical Engineering, Materials Science, Mechanical Engineering, Math, and Physics.**

SOCHE accepts applications on an on-going basis for current and future job openings. Following are examples of past projects that students have worked on:

Reverse Engineering of Gene Networks.

**Majors - Bio-Medical Engineering, Electrical Engineering, Mechanical Engineering (with strong math background)**

This research responds to an Air Force need to understand toxicology at the cellular level. There is an ongoing research effort at AFRL in the area of toxicogenomics, which has been proposed to be a substantial part of the biotechnology research at AFRL in the future. One way to gain a better understanding of toxicology at the cellular level is to develop quantitative models of the cellular pathways involved with the cell's response to exposure to a toxic chemical. Models of various pathways and methods to determine the rate constants as well as other relevant parameters for models of pathways have recently appeared in the literature, but are not concerned with the particular pathways associated with the toxicology of hydrazine or cadmium, both of which are of interest to the Air Force. This research effort is concerned with supporting the toxicogenomics work at AFRL through the development of models of one or more of the pathways associated with liver cell's exposure to hydrazine and/or cadmium and the development of methods to estimate the rate parameters in the models so as to obtain agreement with available genomic and proteomic data. The particular research of this effort is involved with the implementation and use of existing tools for extracting, analyzing and visualizing genomic data, with the modeling of intra-cellular pathways with systems of differential equations, and with the determination of the parameters associated with the system of differential equations by comparing the predictions of the models with existing experimental data.

DARPA AIM Phase Field Code Development

**Majors - Computer Science, Materials Science, Mechanical Engineering**

This involves writing, testing, and documenting and new methods in the codebase to (1) add new features as determined by AFRL scientists, (2) to add new functionality, and (3) improve reliability. The codebase

itself is a mixture of legacy FORTRAN code and newer C code that uses several Application Programmer Interfaces to do mathematical computations, multimedia input and output, and xml input and output.

Nanoscope Surface Preparation and Sensor Materials Characterization

**Majors - Physics, Chemistry, Materials Science**

Methods to influence the organization of atoms at the surface and interface of materials will be investigated. This work may include the deposition of materials, the operation of materials characterization equipment (X-ray, electron and/or ion spectroscopy, AFM, etc.) under the direction of senior engineers to determine the chemistry, morphology and/or structure of the deposited materials, as well as, the design or modification of software on lab automation or data reduction computer systems.

Atomistic and Continuum modeling of quantum dot structures

**Majors - Physics, Electrical Engineering, Materials Science, Computer Science**

Perform finite element calculations to determine the minimum energy shape of quantum dots as a function of dot volume, using commercially available finite element software. Repeat these calculations at the atomic level by performing molecular dynamics calculation using a valence force field (VFF) potential. Develop this molecular dynamics code in MATLAB.

Electromagnetic Simulation

**Majors - Electrical Engineering, Physics, Math**

The student will help predict and characterize peak VHF radar cross section of targets on a dielectric ground as a function of target orientation and surface moisture. The student will develop computer code to form synthetic aperture radar (SAR) images from simulated data. The student will also compare radar images from predicted data to real world radar images in order to spot-validate prediction models. In addition, the student will characterize peak RCS as a function of target orientation for both simulated and real world radar images.

New Defenses Against Steganography

**Major - Computer Science**

Steganography may be used to encode a hidden message in a digital image without apparent effects on the image. However, subtle effects are present, and they may be detected using new techniques based on optimal roughness and related metrics. This research will investigate these techniques for detecting, resisting, and otherwise defending against steganography and related information warfare attacks, and it will evaluate their effectiveness relative to existing methods. Specific tasks include the following (1) acquire a database of images that contain steganographic messages with various known encodings, (2) develop candidate procedures that employ optimal roughness and related metrics to detect steganographic encoding or to prophylactically resist such encoding, and (3) evaluate the effectiveness and robustness of the optimal roughness techniques relative to existing methods.

**Submit:**

**SOCHE Application (available at [www.soche.org](http://www.soche.org))**

**Resume & Transcript/Advising Report**

**For more information**

**Call 937-258-8894**

# COLLEGE NEWS

## Human powered vehicle team designs two winning machines

During the spring quarter 2006, a team of eleven CECS seniors participated in the American Society of Mechanical Engineers' Human Powered Vehicle Competition held at the University of North Carolina in Charlotte.

Stephanie Auld, Ben Byers, Chanda Banwat, Kimberly Campion, Brent Kerns, Ankush Mittal, Greg Pearson, Mike Pirnia, Veronica Rathbun, Amanda Wilcox, and Brian Wirick, with the help of faculty advisor Dr. Junghsen Lieh, designed two vehicles for the competition. The *Raider Rowdy* a single-rider vehicle, while the *Speed Raider* was designed for two riders.

The competitions included planning, design, testing, writing a technical report, giving a presentation, and performing a number of races under different road conditions. The team won three awards at the competition, placing first in both the multi-rider vehicle design event and the utility vehicle design competition, and placing third overall in the utility vehicle events.

### BITs & PCs

College of Engineering and Computer Science  
Wright State University



#### Dean

Bor Z. Jang, Ph.D

#### Managing Editor

Jenny Garringer

#### Editor

Samantha Hundt

*BITs & PCs* is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.

The current issue of *BITs & PCs* is available on the Web at <http://www.es.wright.edu/bitsandpcs/>. Copies are also available in the College office, and all CECS department offices.

To submit items for the next issue, send an email to [jenny.garringer@wright.edu](mailto:jenny.garringer@wright.edu) by August 20, 2006. The College of Engineering and Computer Science reserves the right to edit all material for publication.

## Class tours AF Research Lab



On March 30, (left to right) Brian Nicholson, Dr. John Tam, Alex Sheets, Adam Webb, Jennifer Wright, Mr. Robert Behdadnia (AFRL/PRAS), Ronald White, and 1<sup>st</sup> Lt. Jack Barnett (AFRL/PRAS) toured the AFRL Research Cells.

Dr. John Tam, an adjunct associate professor in the Department of Mechanical and Materials Engineering, invited students in his ME 213 Dynamics class to tour AFRL/PRA Research Cells 18, 19 and 22 on March 20 and May 8, 2006. The tour provided his students with an excellent opportunity to observe the implementation of research, design, and experimentation for an aerodynamics project, such as the scramjet engine in the Hytech program.

The objective of the HyTech program is to demonstrate the operability, performance, and structural durability of a liquid hydrocarbon (jet fuel) supersonic combustion ramjet (Scramjet). Potential applications of this technology include long-range hypersonic weapons and affordable, on-demand access to space with aircraft-like operations.

## WSU automow team places 3rd

A team of eleven undergraduate and graduate CECS students competed for the first time in the Institute of Navigation's 3rd Annual Autonomous Lawn Mower Competition, held June 1 through June 3 at Wright State. Dr. Kuldip Rattan acted as faculty advisor for Mark Arlinghaus, Kent Snyder, Jeff Lichty, Mary Williamson, Amrita

## AIAA student chapter awarded for involvement



The WSU AIAA student chapter accepted a check for one thousand dollars for the club's outstanding record of participation.

The student chapter of the American Institute of Aeronautics and Astronautics, under faculty advisor Dr. James Menart and student president Tim Leger, received a check for one thousand dollars for winning Wright State's Amazing Student Organization Race.

Starting fall quarter student organizations were awarded points for participating in university activities and coordinating events of their own. Throughout the year, AIAA gained more points than any other organization, and was awarded with a check at the 20th Annual Student Leadership Recognition Reception.

By maintaining an active role in the community through the race, the AIAA student chapter at WSU furthered its goal of fostering interest in the areas of aeronautics and astronautics, and providing an avenue of communication between its members and the professional Aerospace industry.

Patel, Erin Linaberry, Tyler Jenkins, John Bielas, Matt Benefiel, Dheeraj Ramaraju, and Arunesh Roy as they designed, tested and created their autonomous mower, the *Raider Rover*.

The mower uses a modified electric wheel chair with a 15-inch reel blade to cut the grass. The students competed last weekend to mow inside a 30-by-50 foot section of grass. To keep it interesting, the competition also includes two obstacles the robots must avoid.

The project allowed students to apply what

## WSU balloon project soars over Miami Valley

A team of electrical and mechanical engineering students teamed up with several faculty members to form the Wright State High Altitude Balloon Project. With the help of faculty advisors Dr. Joseph Slater, Dr. Mitch Wolff, Dr. John Wu, and Dr. Ruby Mawasha, seniors John Holtkamp, Jessica Williams, Mike Corbett, Sean Stevens, and Brian Wirick created a system to monitor a balloon in high altitude flight, record the flight data, and successfully return to earth.



The teams balloon took over 300 photos, including one (above) taken from approximately 94,000 just east of Piqua. Wright-Patterson Air Force Base is visible in the bottom left, the city of Dayton is on the right hand side and the Ohio River is in the distance.

The box attached to the balloon included a GPS tracking system, a camera, a data recorder, and a parachute for landing. A microprocessor was included to allow the students to monitor readings via a laptop.

The group collected some 300 photos from the flight, which reached a height of 97,000 feet, and reached temperatures of 5 degrees Fahrenheit.

The electrical engineering students focused on the design of a timer circuit for the camera, while the mechanical engineering students focused on designing a system that could withstand extreme conditions. The balloon flight helped the students learn applications of thermal analysis and structural analysis.



The WSU automow team created their autonomous lawn-mower by modifying an electric wheelchair.

they learned in the classroom in terms of design concepts, engineering procedures, navigational principles and computer applications. After a long day of testing and competition, the Raider Rover brought home 3rd place.

## SCHOLARSHIPS & FELLOWSHIPS

The **National Research Council of the National Academies** sponsors a number of awards for postdoctoral researchers at federal laboratories. These awards provide generous stipends (\$36,000 - \$65,000), and the opportunity to do independent research in some of the best-equipped and staffed laboratories in the country. Detailed program information, including instructions on how to apply and a list of participating laboratories, is available on the NRC Research Associateship Programs Web site at: [www.national-academies.org/rap](http://www.national-academies.org/rap). Questions should be directed to the NRC at 202-334-2760 or [rap@nas.edu](mailto:rap@nas.edu). There will be four review cycles annually. Upcoming deadline dates are May 1, August 1, and November 1. Applicants should begin a dialog with prospective advisers at the lab as early as possible, before their anticipated application deadline.

The **American Public Power Association (APPA)** awards student reach grants/internships each year to university students as part of their Demonstration of Energy-Efficient Developments (DEED) Program. APPA is the service organization for the nation's community-owned electric utilities. DEED is APPA's research program that funds energy innovation and efficiency research. Ten \$4,000 student research grants/internships are awarded each year to undergraduate and graduate university students to conduct research on a project/internship in conjunction with a DEED member utility or as part of the students' curriculum requirements if approved by a DEED member. A mid-project report, final report, and abstract are required. Application deadlines for these grants are August 15 and February 15 each year. DEED also awards one \$5,000 technical design project each year to a student or group of students studying in an energy related discipline. This grant is geared towards engineering students working on their senior project. The students' academic advisor must approve the project and a mid-project report, final report, and abstract are required. Travel expenses (up to \$3,000) are also included in this grant for the students to present their work at APPA's Engineering and Operations Technical Conference held each spring. The application deadline for this grant is October 15 each year. For more information and an application visit APPA's website at <http://www.APPA.net.org>, then click on *Research and Development (DEED)*, then choose *DEED Funding Opportunities*.

The **Naval Research Laboratory (NRL)** sponsors a postdoctoral fellowship program that is designed to increase the participation of highly trained scientists and engineers in scientific and technical areas of interest in the Navy. Scientists and engineers at participating naval laboratories help shape and execute the programs that support Naval Forces in their future operational needs. Competitive stipends based on experience are offered. Relocation and travel allowances along with a comprehensive benefits package including health, life, and disability insurance are also offered. All applicants must be U.S. citizens or permanent residents, or hold a green card. Permanent resident status eligibility for fellowship positions may vary with each laboratory. Before appointment, each participant must present evidence of having received a Ph.D. or equivalent degree. The applicant must submit a 5-10 page research proposal that related to a specific research opportunity. Applications are accepted on an ongoing basis. For application material and detailed information, visit [www.asee.org/nrl](http://www.asee.org/nrl).

# GRADUATES

## JUNE 2006

### Bachelor's Degrees

Bernard O. Abayowa	EE
Omar Abousoud	BME
Alexander Albury	BME
Daniel J. Alldred II	BME
Jared S. Ames	ME
Mark C. Arlinghaus	EE, ME
Austin M Balogh	BME
Christopher R. Benedik	CEG
Matthew S. Benefiel	CEG
William T. Bennet	ME
Craig T. Birkemeier	CS
Jason M. Blackaby	EE
Karlyn D. Bolts	ISE
Nicholas J. Branstein	CEG
Dave M. Brown	EE
Joshua D. Boyle	CS
Benjamin R. Byers	ME
Glenn L. Byrne	ME
John M. Callahan	EP
Kimberly M. Campion	ME
Joseph A. Cherry	ME
Ashley M. Coppess	MSE
Michael T. Corwin	EE
Larry D. Cotton	EE
John L. Creachbaum	ME
Adam L. Decker	EE
Jeffrey R. Diekemper	BME
Todd M. Dobmeyer	CS
James D. Dowd	EE
Justin R. Estep	BME
Eric M. Etter	ME
Nicholas R. Foor	CS
David M. Fortener	MSE
Joshua A. Fuhr	ME
David K. Fultz	EP
Daniel M. Garling	CEG
Tye A. Gietzen	ME
Keith E. Gonyou	ME
Angela J Griffith	EE
Lisa N. Griffith	BME
Adam M. Grubb	ME
Amanda L. Hanes	CS
Jason E. Hansel	ME
Scott W. Hayden	ME
Todd E. Hemmer	ME
Edward S. Hicks	CS
Christina L. Hilvers	CEG
Dustin M. Holcomb	ME
Craig J. Holdheide	CS
Gregory S. Holliday	ME
Brian D. Honnigford	CS
Daylond J. Hooper	BME

Nicholas A. Humphrey	CEG
Anthony J. Hunt	CEG
Rivaz O. Ibrahim	CS
Michael S. Jean	BME
David M. Jurcsin	EE
Mohsen Karimkhan	EE
Shamsadin Karimkhan	EE
Grant S. Kelly	ISE
Zachary D. Kenny	CEG
Brent L. Kerne	ME
Brad J. Kleman	CS
Joshua S. Kossler	ME
Matthew D. Kuhary	ME
Kelly Le	EE
Jeffrey J. Lichty	ME
Erin M. Linaberry	EE
Quincy A. Macklin	CEG
Abigail M. Maloney	BME
Matthew J. Mangen	ME
Vikram D. Mathur	BME
Shannon A. Mayne	EE
Thomas W. McCrorie	CS
Jamie R. McFarland	EE
Tiffany R. Mentzel	BME
Jonathan I. Moore	EE
Vestine Mukanshimiye	BME
Richard Murdock	BME
Eric Musengimana	ME
Jacob A. Myers	CS
Stephen M. Nutbrown	ME
Michael T. Odenweller	EE
Stephen S. Pawel	EP
Kyle P. Pontzloff	EE
Muhammad M. Qureshi	BME
Martin G. Rammel	CS
Aaron L. Reinhart	ME
James N. Rodgers	EE
Anthony E. Romito	CEG
Stephanie R. Salas	BME
Adrienne E. Schaab	ME
Doug F. Schroeder	ME
Michael M. Schauer	CS
Kent A. Snyder	ME
Gairy O. Spence	ISE
David S. Spindler	ISE
Sean R. Stevens	EE
James T. Stone	CS
Megan M. Stoudinger	BME
Eric R. Strahm	ME
Michael J. Swiech	CS
James J. Tarjeft	EE
Vincent M. Terek	EE
Anthony P. Visokay	CEG
Jennifer C. Wappler	BME

Nathan R. C. Warden	EE
Amanda L. Welch	ISE
Brian P. Westerfield	ISE
Ronalds D. Whire	EE
Zachary J. Wolf	ME

### Master's Degrees

Nikhil Agrawal	CS
Ali Z. Ahmadi	CS
Shaheen Ahmed	EE
Jeremiah D. Allen	ME
Shailaja Akula	EE
Madhavi L. Alla	EE
Ramzi J. Ammari	BME
Anuradha M. Arbune	BME
Rahul Bellamkonda	EE
Dakshina S. Bellur	EE
Rupesh Bhimireddy	EE
Tricia L. Botkin	ME
Ronald K. Butcher	HF
Vaibhav A. Bhoite	BME
Rupa Celamkoti	HF
Udava Chandupatla	EE
Tony Chiang	EE
Vamsee K. Chintamaneni	MSE
Maurissa S. D'Angelo	BME
Bala M. Devarajan	BME
Sachin Dixit	BME
Erica J. Doczy	BME
Andrew C. Drake	BME
Manoj Durisheti	EE
Elizabeth A. Eberth	HF
Gerald M. Eusebio	EE
Aaron D. Hohenbrink	CEG
Karen M. Hohenbrink	CEG
Jason Horsman	CEG
Vijaya S. Gadde	HF
Arvind Gali	BME
Rahul H. Ganbote	BME
Niket S. Gandhi	EE
Veena R. Ganeshan	BME
Jennifer L. Garber	BME
Murali Gorantla	MSE
Pavan K. Goverdhana	EE
Narayana Hariharan	EE
Amith Harsha	BME
Michael A. Ingram	BME
Ramasubramani G. Iver	EE
Akash Hain	CS
Yogitha Jampala	BME
Richa Y. Jayakar	BME
Carissa B. Johnson	HF
Mayur S. Joshi	EE

# 2005 Graduate Student Excellence Awards

The School of Graduate Studies recognizes the achievements of the individuals listed below by honoring them with the 2006 Graduate Student Excellence Awards.

These awards are based on nominations by faculty in the students' graduate program area. Criteria for the selection include superior academic achievement, noteworthy thesis work, and potential for significant contribution to their fields.

## Master's Students

**Hemanth Amarchinta**  
Mechanical Engineering

**Viraj Ambetkar**  
Computer Engineering

**Chaitr Hiremath**  
Human Factors Engineering

**Ajit Khatra**  
Electrical Engineering

**Paul Anderson**  
Computer Science

## Doctoral Students

**Jeremy Daily**  
Engineering Ph.D.

**Kiranraj George**  
Engineering Ph.D.

**Saranyan Vigraham**  
Computer Science and  
Engineering Ph.D.

Lakshmikanth R. Karanam	EE	Naga Virajitha Tanugula	CS
Hrishikesh V. Karvir	BME	Andrew P. Tauro	EE
Joseph W. Kell	MSE	Vaibhav U. Tendulkar	EE
Sumit J. Khati	BME	Tichard P. Tuminello	MSE
Ajit P. Khatra	EE	Nitin R. Ubale	BME
Phani N. Kidambi	BME	Michael R. Varney	ME
Bhargavi Koneru	CEG	Padma P. Vemulakonda	MSE
Jijay Koppaka	HF	Praneeth Vutukuru	HF
Abhinay Krishna	EE	Conghui Yang	EE
Vaughn R. Kunze	ME	Ruolin Zhou	EE
Jia-Jye N. Lee	BME		
Michael E. Leiss	EE		
David S. Lenda	CS		
Jianing Ma	EE		
Harshal S. Maghade	EE		
Joseph P. Mangan	CEG		
Srikanth Malathi	EE		
Varun K. Malyala	EE		
Srujana Marella	BME		
Christopher R. Marks	ME		
Iheanacho O. Mbuko	EE		
Ryan E. McGinnis	EE		
Padmini Munuswamy	BME		
Dakshinamurthy S. Nagalingam	ME		
Teodora Nedkova	MSE		
Venkat S. Nemani	EE		
Siaw-Yuen Ng	CS		
Khanh T. Nguyen	CS		
Taiwo A. Ogunjobi	ME		
Ryan P. O'Hara	ME		
Steven M. Page	ME		
Stephen R. Perrin	BME		
Elaine K. Peterman	BME		
Udai R. Pokkulahariram	BME		
Bhushan M. Puradupadhye	EE		
Aarti Raghavan	CS		
Mukund Raman	EE		
Sooraj Ramanathan	EE		
Reethireddy Ramireddy	HF		
Saurabh S. Ranade	EE		
Michael Reed	CS		
David M. Rodney	EE		
Seetapati V. Rvali	EE		
Cyprian D. Sajabi	EE		
Matthew W. Saunders	ME		
James A. Schneider	CEG		
Tarek A. Seleem	CS		
Tripti Shastri	CS		
Pallavi D. Shinde	HF		
James A. Shope	EE		
Smitha Srinivasan	EE		
Spurthi V. R. Sripuram	BME		
Harshita Soni	CEG		
Wen-Jeng Su	BME		

## Doctorate Degrees

Phani R. Adduri	Ph.D.
Edward J. Alyanak	Ph.D.
Govind Bharwani	Ph.D.
Seung-Kyum Choi	Ph.D.
Jeremy S. Daily	Ph.D.
Subhashini Ganapathy	Ph.D.
Amanda C. Muller	Ph.D.
David R. Paoleki	Ph.D.
Jalaja Repalle	Ph.D.
Praveen K. Kakumanu	Ph.D.

**Please Note:** This list is not binding. All names listed above are subject to degree certification before graduation in considered final

**Congratulations  
CECS graduates  
for all your  
accomplishments!**

**Best of luck in  
your future  
endeavors!**



# Need a job or co-op?

Mark your calendars...

## ENGINEERING AND COMPUTER SCIENCE RECRUITING DAY

Thursday, July 27, 2005  
1:00pm – 4:00pm

Apollo Room, Student Union

For more information contact Career Services at  
(937) 775-2556

### Important Dates

<b>July 13</b>	Last day of A term classes
<b>July 17</b>	First day of B term classes
<b>August 11</b>	Student Employment job fair 1:00 PM - 3:30 PM Student Union Apollo Room
<b>August 17</b>	Last day of B and C term
<b>August 20</b>	Last day to apply for December graduation
<b>August 21-25</b>	Academic Advantage Program
<b>September 1</b>	Campus move-in day for first year students
<b>September 3</b>	Campus move-in day for continuing students
<b>September 4</b>	LABOR DAY - WSU CLOSED
<b>September 5</b>	First day of fall quarter classes

Office of the Dean

College of Engineering and Computer Science  
3640 Colonel Glenn Hwy.  
Dayton, OH 45435-0001

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