Alacce, John  Systems  Administrator – ECE  
(412)-268-6649  
jalacce@ece.cmu.edu

Ambrass, Charlotte  Associate Director of  
Finance and Sponsored Research – ECE
(412)-268-6858  
ambrass@ece.cmu.edu

Antaki, James  Professor – BME; Courtesy  
Professor – ECE  
antaki@andrew.cmu.edu

Atwell, Niccole  Senior Associate Director  
of Engagement and Annual Giving – ECE  
atwell@andrew.cmu.edu

Bain, Jim  Professor – ECE, MSE; Associate  
Director – DSSC  
(412)-268-3602  
jbain@ece.cmu.edu

Keywords

Thin-film magnetic device design, 
fabrication, and testing; magnetic disk and 
tape recording

Balram, Nikhil  Adjunct Professor – ECE

Bandola, Judy  Administrative  
Coordinator – ECE  
(412)-268-2224  
judy@ece.cmu.edu

Bauer, Lujo  Associate  
Professor – CyLab, ECE  
(412)-268-9745  
lbauer@cmu.edu

Keywords

Computer security, access control, 
program monitoring, security automata,  
policy specification

Bauerle, Claire E.  Administrative  
Coordinator – ECE  
(412)-268-7422  
cbauerle@ece.cmu.edu

Belotti, Dave  Shop Machinist – ECE  
(412)-268-6326  
dbelotti@ece.cmu.edu
**Benicky, Sheryl** Research Administrator – ECE  
(412)-268-3729  
sbenicky@ece.cmu.edu

**Berger, Luc** Emeritus Professor – Physics; Affiliated Faculty – DSSC  
(412)-268-2919  
lberger@andrew.cmu.edu

**Bhagavatula, Vijayakumar** U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT  
(412)-268-3026  
kumar@ece.cmu.edu

**Keywords**

Coding and signal processing for data storage, biometrics, pattern recognition

**Bianchini, Ronald** Adjunct Professor – ECE  
(412)-968-9110  
rb@ece.cmu.edu

**Keywords**

Distributed fault-tolerant computing and computer networks

**Bishop, Cathy** Instructor – ECE  
mcbishop@andrew.cmu.edu

**Blanton, Shawn** Professor – ECE; Associate Director – JIE  
(412)-268-2987  
rbblanton@andrew.cmu.edu

**Keywords**

Test and diagnosis of heterogeneous, integrated systems

**Bollapragada, Vara** Post Doctoral Research Associate – ECE  
sbollapr@ece.cmu.edu

**Bosle, Kevin** Senior Buyer – ECE  
(412)-268-9642  
kbosle@ece.cmu.edu

**Brown, Timothy X** Distinguished Service Professor – ECE, EPP  
timxb@andrew.cmu.edu

**Brumley, David J.** Associate Professor – CS, ECE; Director – CyLab  
(412)-268-3851  
dbrumley@ece.cmu.edu

**Bryant, Randal** Professor – CS; Courtesy Professor – ECE  
(412)-268-8821  
bryant@cs.cmu.edu

**Keywords**

Formal hardware and software verification

**Burns, Krista** Communications Manager – ECE  
(412)-268-5316  
kgregan@ece.cmu.edu
Carley, Kathleen
Professor – ISR; Courtesy Professor – ECE
kathleen.carley@cs.cmu.edu

Carley, Rick
ST Microelectronics
Professor – ECE; Affiliated Faculty – DSSC
lrc@ece.cmu.edu

Chamanzar, Maysam
Assistant Professor – ECE
mchamanz@andrew.cmu.edu

Chase, Steven
Professor – ECE
schase@andrew.cmu.edu

Chen, Tsuhan
Adjunct Professor – ECE
tsuhan@ece.cmu.edu

Chen, Xiaoming
Visiting Research Scholar – ECE
xchen3@andrew.cmu.edu

Chomas, Louis
Research Associate – DSSC; Cleanroom/MEMS Engineer – ECE
lchomas@andrew.cmu.edu

Chong, Jike
Adjunct Instructor – ECE
jchong@andrew.cmu.edu

Choset, Howie
Professor – RI; Courtesy Professor – ECE
choset@cs.cmu.edu

Chraska, Jacqueline
Administrative Coordinator – ECE
chraska@ece.cmu.edu

Christin, Nicolas
Assistant Research Professor – CyLab, ECE
nicolasc@andrew.cmu.edu
Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

Chung, Pil Seung Post Doctoral Research Associate – ChemE, DSSC
(412)-268-4035 pil@cmu.edu

Clarke Jr., Edmund FORE Systems Professor – CS; Courtesy Professor – ECE
(412)-268-2628 edmund.clarke@cs.cmu.edu

Hardware and software verification, automatic theorem proving, symbolic computation

Collier, Zara Academic Services Coordinator – ECE 412-268-5621 zcollier@andrew.cmu.edu

Cominos, Lenna Corporate Relations – ECE (412)-268-7689 cominos@andrew.cmu.edu

Copetas, Catherine ECE/SCS Office of Engagement and Annual Giving – ECE copetas@andrew.cmu.edu

Costa, Katie Student Organizations and Activities Advisor – ECE (412) 268-1470 kcosta@andrew.cmu.edu

Cowan, Christina Executive Assistant to the Department Head and Administrative Services Manager – ECE (412)-268-3299 ccowan@andrew.cmu.edu

Cranor, Lorrie F. Professor – ISR, EPP; Courtesy Professor – ECE (412)-268-7534 lorrie@cs.cmu.edu

Usable privacy and security

Datta, Anupam Associate Professor – CyLab, ECE, CS danupam@andrew.cmu.edu

Davis, Robert John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE (412)-268-7264 rfd@andrew.cmu.edu

Decker, Dave Manager of Web Development Services – ECE (412)-268-8157 ddecker@ece.cmu.edu

De La Torre Frade, Fernando Courtesy Professor – ECE; Research Scientist – RI ftorre@cs.cmu.edu

Demby, Lauren Administrative Coordinator – JIE, ECE, DSSC (412)-268-2650 ldemby@ece.cmu.edu
Dey, Anind K. Associate Professor – HCII; Courtesy Professor – ECE
Dolan, John Courtesy Professor – ECE; Senior Systems Scientist – RI

Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Echko, Michelle Finance and Business Associate – ECE
Eckhardt, Dave Courtesy Professor – ECE; Assistant Teaching Professor – CS
Elgersma, Steve Senior Systems & Software Engineer – ECE
Erdogmus, Hakan Associate Teaching Professor – ECE

E

Echko, Michelle Finance and Business Associate – ECE 412-268-2939 mechko@andrew.cmu.edu
Eckhardt, Dave Courtesy Professor – ECE; Assistant Teaching Professor – CS davide+receptionist@cs.cmu.edu
Elgersma, Steve Senior Systems & Software Engineer – ECE (412)-268-9531 elgersma@ece.cmu.edu
Erdogmus, Hakan Associate Teaching Professor – ECE hakan.erdogmus@sv.cmu.edu

F

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE 412-268-1457 christos@cs.cmu.edu

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS babak.falsafi@epfl.ch

Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

Fassinger, Dan P. IT Manager – ECE 412-268-4745 danfas@ece.cmu.edu
Fatahalian, Kayvon Courtesy Professor – ECE; Assistant Professor – CS (412) 268-1234 kayvonf@cmu.edu
Fedder, Gary Howard M. Wilkoff Professor – ECE, RI; Co- (412)-268-8443 fedder@ece.cmu.edu
Director – MEMS; Affiliated
Faculty – DSSC

Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE
(412)-268-6961
feenstra@andrew.cmu.edu

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Fox, Toni Sponsored Research Assistant – CyLab
(412) 268-1657
tonif@andrew.cmu.edu

Franchetti, Franz Associate Research Professor – ECE; Faculty Director of ITS – ECE
(412)-268-8297
franzf@ece.cmu.edu

Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures

Furuta, Masaki Post Doctoral Research Associate – ECE
mfuruta@ece.cmu.edu

G

Gamble, Andrew Laboratory Electronics Supervisor – DSSC
(412)-268-1110
jgamble@ece.cmu.edu

Gandhi, Rajeev Courtesy Professor – ECE
(412)-268-4922
rgandhi@ece.cmu.edu

Keywords

Wireless systems, multimedia compression, signal processing/compression

Ganger, Greg Jatras Professor – ECE, CS; Director – PDL; Affiliated Faculty – DSSC
(412)-268-1297
ganger@ece.cmu.edu

Keywords

cloud computing, storage/file systems, operating systems, distributed systems

Garba, Aminata Assistant Teaching Professor – ECE
(412)-268-8558
aminata@ece.cmu.edu
Gellman, Andrew J. Lord
Professor – ChemE; Professor – Chemistry; Affiliated Faculty – DSSC
(412)-268-3848
dg4b@andrew.cmu.edu

Ghose, Saugata
Post Doctoral Research Associate – ECE
(412)-268-9192
saugatag@andrew.cmu.edu

Gibbons, Phil
Professor – ECE
pgibbons@andrew.cmu.edu

Gibson, Garth
Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC
garth@cs.cmu.edu

Gligor, Virgil
Professor – ECE; Co-Director – CyLab
(412)-268-9833
virgil@andrew.cmu.edu

Goldstein, Seth
Associate – CS; Courtesy Professor – ECE
seth@cs.cmu.edu

Golub, Matt
Post Doctoral Research Associate – ECE
mgolub@andrew.cmu.edu

Gottron, Norman
Process Engineer – Nanofab
(412)-268-4205
ngottron@andrew.cmu.edu

Greenfield, Anissa
Manager, Sponsored Research Administration – ECE
(412)-268-3114
admyers@ece.cmu.edu

Greve, David
Professor – ECE
(412)-268-3707
dg07@andrew.cmu.edu

Grigeco, Patricia L.
Administrative Manager – DSSC
(412)-268-6429
pg1q@andrew.cmu.edu

Griss, Martin L.
Adjunct Professor – ECE
(650)-335-2805
martin.griss@west.cmu.edu

Grover, Pulkit
Assistant Professor – ECE
412-268-3644
pgrover@ece.cmu.edu

Grupe, Alan
Facilities Manager – ECE
(412)-268-2526
alan@ece.cmu.edu

Keywords
Computer architecture, operating systems, file systems, disk arrays

Gligor, Virgil
Professor – ECE; Co-Director – CyLab
(412)-268-9833
virgil@andrew.cmu.edu

Goldstein, Seth
Associate – CS; Courtesy Professor – ECE
seth@cs.cmu.edu

Golub, Matt
Post Doctoral Research Associate – ECE
mgolub@andrew.cmu.edu

Gottron, Norman
Process Engineer – Nanofab
(412)-268-4205
ngottron@andrew.cmu.edu

Greenfield, Anissa
Manager, Sponsored Research Administration – ECE
(412)-268-3114
admyers@ece.cmu.edu

Greve, David
Professor – ECE
(412)-268-3707
dg07@andrew.cmu.edu

Grigeco, Patricia L.
Administrative Manager – DSSC
(412)-268-6429
pg1q@andrew.cmu.edu

Griss, Martin L.
Adjunct Professor – ECE
(650)-335-2805
martin.griss@west.cmu.edu

Grover, Pulkit
Assistant Professor – ECE
412-268-3644
pgrover@ece.cmu.edu

Grupe, Alan
Facilities Manager – ECE
(412)-268-2526
alan@ece.cmu.edu

Keywords
Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

Gligor, Virgil
Professor – ECE; Co-Director – CyLab
(412)-268-9833
virgil@andrew.cmu.edu

Goldstein, Seth
Associate – CS; Courtesy Professor – ECE
seth@cs.cmu.edu

Golub, Matt
Post Doctoral Research Associate – ECE
mgolub@andrew.cmu.edu

Gottron, Norman
Process Engineer – Nanofab
(412)-268-4205
ngottron@andrew.cmu.edu

Greenfield, Anissa
Manager, Sponsored Research Administration – ECE
(412)-268-3114
admyers@ece.cmu.edu

Greve, David
Professor – ECE
(412)-268-3707
dg07@andrew.cmu.edu

Grigeco, Patricia L.
Administrative Manager – DSSC
(412)-268-6429
pg1q@andrew.cmu.edu

Griss, Martin L.
Adjunct Professor – ECE
(650)-335-2805
martin.griss@west.cmu.edu

Grover, Pulkit
Assistant Professor – ECE
412-268-3644
pgrover@ece.cmu.edu

Grupe, Alan
Facilities Manager – ECE
(412)-268-2526
alan@ece.cmu.edu
Harchol-Balter, Mor
Associate Professor – CS; Courtesy Professor – ECE
(412)-268-7893
harchol@andrew.cmu.edu

Keywords
Scheduling of computer systems, workload characterization, heavy-tailed distributions

Harding, Meighan
Director of Operations – ECE
(412)-268-8924
meighan.harding@ece.cmu.edu

Higgs III, Fred
Professor – MechE; Courtesy Professor – ECE
(412)-268-2486
higgs@andrew.cmu.edu

Keywords
Tribology, nanomanufacturing, multi-scale particle flows

Hills, Alex
Distinguished Service Professor – EPP; Courtesy Professor – ECE
(907)-232-6088
ahills@cmu.edu

Keywords
Research in wireless technology and telecommunications policy

Hilton, Chad
Senior Systems & Software Engineer – ECE
(412)-268-6037
chilton@ece.cmu.edu

Hoburg, James
Emeritus Faculty – ECE
(412)-268-2473
hoburg@ece.cmu.edu

Keywords
Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Hoe, James C.
Professor – ECE, CS; Co-Director – CALCM
(412)-268-4259
jhoe@cmu.edu

Keywords
Computer architecture, high-level hardware description and synthesis

Hoffman, Steve
Machine Shop Foreman – ECE
(412)-268-2505
hoffman@ece.cmu.edu

Hollis, Ralph L.
Research Professor – RI; Courtesy Professor – ECE
(412)-268-8264
rhollis@cs.cmu.edu
**Keywords**

Haptics, microassembly, dynamically stable mobile robots

**Hong, Jason** Courtesy Professor – ECE; Associate Professor – CS  
[jasonh@cs.cmu.edu](mailto:jasonh@cs.cmu.edu)

**Hug, Gabriela** Adjunct Faculty – ECE  
[ghug@ece.cmu.edu](mailto:ghug@ece.cmu.edu)

**Iannucci, Bob** Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley  
(650) 714 1200  
[roberti@andrew.cmu.edu](mailto:roberti@andrew.cmu.edu)

**Ilic, Jovan** Instructor – ECE  
(412)-268-3943  
[jilic@ece.cmu.edu](mailto:jilic@ece.cmu.edu)

**Ilic, Marija** Professor – ECE  
(412)-268-9520  
[milic@ece.cmu.edu](mailto:milic@ece.cmu.edu)

**Islam, Mohammad F.** Assistant Professor – ChemE, MSE; Courtesy Professor – ECE  
(412)-268-8999  
[mohammad@andrew.cmu.edu](mailto:mohammad@andrew.cmu.edu)

**Jackson, Collin** Adjunct Professor – ECE  
[collin.jackson@sv.cmu.edu](mailto:collin.jackson@sv.cmu.edu)

**Jahanian, Farnam** Vice President for Research – CMU; Courtesy Professor – ECE  
(412) 268-3363  
[farnam@andrew.cmu.edu](mailto:farnam@andrew.cmu.edu)

**Jhon, Myung S.** Professor – ChemE; Affiliated Faculty – DSSC  
(412)-268-2233  
[mj3a@andrew.cmu.edu](mailto:mj3a@andrew.cmu.edu)

**Jia, Limin** Assistant Research Professor – CyLab, INI, ECE  
(412)-268-4605  
[liminjia@andrew.cmu.edu](mailto:liminjia@andrew.cmu.edu)

**Jia, Limin** Assistant Research Professor – CyLab, INI, ECE  
(412)-268-4605  
[liminjia@andrew.cmu.edu](mailto:liminjia@andrew.cmu.edu)
Keywords

Language-based security, programming languages, logic and program verification.

**Jordan, Angel** Emeritus University
Professor – ECE, RI  
(412)-268-2590  
ajordan@cs.cmu.edu

Keywords

Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

**Kanade, Takeo** U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE  
(412)-268-3016  
tk@cs.cmu.edu

Keywords

Computer vision, autonomous systems, medical robotics

**Kar, Soumya** Assistant Research Professor – ECE  
(412)-268-8962  
soumyyak@andrew.cmu.edu

Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

**Kareis, Tomissa** Research Administrator – ECE  
(412)-268-3863  
tkareis@ece.cmu.edu

**Kass, Leona** Associate Director of Student and Academic Affairs – ECE  
(412)-268-2496  
lkass@andrew.cmu.edu

**Kelly, Shawn K.** Senior Systems Scientist – ICES; Courtesy Professor – ECE  
skkelly@andrew.cmu.edu

**Khosla, Pradeep K.** Adjunct Professor – ECE; Chancellor – University of California, San Diego  
pkk@ece.cmu.edu

Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

**Kim, Hyong** Drew D. Perkins Professor – ECE  
(412)-268-6491  
kim@ece.cmu.edu
Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control

Kim, Hoe Joon Post Doctoral Research Associate – ECE

Kimukin, Ibrahim Research Associate – ECE

Kirby, Reenie Executive Assistant – JIE

Knickerbocker, Kara Administrative Coordinator – ECE

Koeske, Matt Research Administrator – ECE

Koopman, Philip Associate Professor – ECE, CS

Keywords
distributed embedded systems, survivable system architecture, dependability

Kovaevi, Jelena David Edward Schramm Professor – ECE; Department Head – ECE; Professor – BME; Director – Center for Bioimage Informatics

Keywords

Signal processing, biomedical, wavelets, frames, multiresolution, communications

Kozuch, Michael A. Adjunct Professor – ECE

Krogh, Bruce H. Professor – ECE

Keywords

Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems

Kryder, Mark University Professor – ECE; Affiliated Faculty – DSSC
Keywords

Magnetic recording, optical recording and ferroelectric materials

Kumar, Swarun S. Assistant Professor – ECE 412-268-1892
swarun@cmu.edu

Kumar, Shobha Financial and Research Administrator – ECE-SV
shobhak@andrew.cmu.edu

Kurpiewski, Matthew Systems Administrator – ECE
mkurp@andrew.cmu.edu

Lambeth, David N. Emeritus Professor – ECE
lambeth@ece.cmu.edu

Keywords

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

Lane, Ian R. Assistant Research Professor – ECE
ianlane@cs.cmu.edu

Laughlin, David ALCOA Professor – MSE; Courtesy Professor – ECE; Affiliated Faculty – DSSC
(412)-268-2706
dl0p@andrew.cmu.edu

Keywords

Magnetic materials, material science, electron microscopy, x-ray diffraction

Leathers, Diana Administrative Coordinator – ECE
650-335-2824
diana.leathers@sv.cmu.edu

Lehman, Philip ECE/SCS Office of Engagement and Annual Giving – ECE
pll@andrew.cmu.edu

Li, Ming Assistant Professor – JIE; Adjunct Professor – ECE
(412) 268-7750
mingli1@andrew.cmu.edu

Li, Xin Associate Professor – ECE
(412)-268-6507
xinli@ece.cmu.edu

Keywords

Integrated circuits, computer-aided design

Li-Hagerty, Lorraine Business Program Manager – JIE
(412) 268-1099
lhagerty@cmu.edu

Lindenfelser, Karen Administrative Manager – PDL; Administrative Coordinator – ECE
(412)-268-6716
karen@ece.cmu.edu

Liu, Zhaojun Assistant Professor – JIE; Visiting Professor – ECE
412-268-7159
zhaojun@ece.cmu.edu
Lloyd, Asia
Senior Administrative Coordinator – ECE
(412)-268-4632
aslloyd@ece.cmu.edu

Low, Tze Meng
Systems Scientist – ECE
(412) 268-5663
lowt@andrew.cmu.edu

Lucia, Brandon
Assistant Professor – ECE
(412) 268-3587
blucia@ece.cmu.edu

Lynch, Aydaen
Senior Systems & Software Engineer – ECE
(412)-268-5818
alynch@ece.cmu.edu

Mai, Ken
Principal Systems Scientist – ECE
(412)-268-8335
kenmai@ece.cmu.edu

Keywords
Digital circuit design, computer architecture, memory design, reconfigurable computing

Majetich, Sara A.
Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3105
sm70@andrew.cmu.edu

Maly, Wojciech
Emeritus Professor – ECE
(412)-268-6637
maly@ece.cmu.edu

Keywords
Computer-aided design and manufacturing of VLSICs

Marculescu, Radu
Professor – ECE
(412)-268-8710
radum@ece.cmu.edu

Keywords
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Marculescu, Diana
Associate Department Head for Academic Affairs – ECE; Professor – ECE
(412)-268-1167
dianam@ece.cmu.edu

Keywords
VLSI/computer architecture, energy aware computing, CAD for integrated systems

Martins, Rolando
Post Doctoral Research Associate – ECE
(412)-268-2476
martinsr@ece.cmu.edu

Maxion, Roy
Research Professor – CS; Courtesy Professor – ECE
(412)-268-7556
maxion@cs.cmu.edu
Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

McHenry, Michael E. Professor – MSE; Affiliated Faculty – DSSC  (412)-268-2703
mm7g@andrew.cmu.edu

McKinney, Jim IT Manager – ECE  (412)-268-5141
jmck@ece.cmu.edu

Mehdizadeh, Emad Post Doctoral Research Associate – ECE  emehdiza@ece.cmu.edu

Mengshoel, Ole Associate Research Professor – ECE  ole.mengshoel@sv.cmu.edu

Miskov-Zivanov, Natasa Adjunct Faculty – ECE  (412)-268-9873
nmiskov@andrew.cmu.edu

Moe, Tara Associate Director of Graduate Affairs – ECE  (412)-268-6327
taramoe@ece.cmu.edu

Moneck, Matthew Executive Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC  (412)-268-5430
mmoneck@andrew.cmu.edu

Morgan, Granger Professor – ECE; Lord Professor – EPP  (412)-268-2672
gm5d@andrew.cmu.edu

Keywords

Technology and policy including climate change and electric power

Morris, James Professor – CS; Courtesy Professor – ECE  (412)-609-5000
james.morris@sv.cmu.edu

Moura, José Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC  (412)-268-6341
moura@ece.cmu.edu

Keywords

Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

Moutis, Panayiotis Post Doctoral Research Associate – ECE  (412) 268-7114
pmoutis@andrew.cmu.edu

Mowry, Todd Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM  (412)-268-3725
tcm@cs.cmu.edu
Keywords

Computer architecture, compilers, operating systems, parallel processing

**Moya, Linda** Affiliated Faculty – ECE

**Mukherjee, Tamal** Professor – ECE

Affiliated Faculty – ECE

**lhmoya@andrew.cmu.edu**

(412)-268-8522

**tamal@ece.cmu.edu**

**Keywords**

Analog/RF/MEMS/biofluidic microsystem design

**Mutlu, Onur** Associate Professor – ECE, CS

(412)-268-1186

**onur@cmu.edu**

**Keywords**

Computer architecture, hardware/software interaction, operating systems, fault tolerance

**N**

**Nace, Bill** Associate Teaching Professor – ECE

(412)-268-7027

**wnace@cmu.edu**

**Keywords**

Digital Design, Embedded Systems, Networks

**Narasimhan, Priya** Professor – ECE

(412)-268-8801

**priya@cs.cmu.edu**

**Keywords**

fault tolerance, distributed systems, embedded systems, mobile systems

**Negi, Rohit** Professor – ECE; Affiliated Faculty – DSSC

(412)-268-6264

**negi@ece.cmu.edu**

**Keywords**

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

**Noh, Hae Young** Assistant Professor – CEE; Courtesy Professor – ECE

**noh@cmu.edu**

**Keywords**

O

**O'Hallaron, David** Professor – CS, ECE; Director – Intel Research Pittsburgh

(412)-268-8199

**droh@cs.cmu.edu**
Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

Ozdoganlar, O. Burak
Affiliated Faculty – DSSC; Associate Professor – MechE

Ozdoganlar, Neslihan
M.S. Academic Program Advisor – ECE

Keywords

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

Péraire, Cécile
Assistant Teaching Professor – ECE

Püschel, Markus
Adjunct Professor – ECE

Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

Patterson, Carol
Administrative Coordinator – ECE

Patton, Ashley
Director of Engagement and Annual Giving – ECE

Pavlo, Andy
Courtesy Professor – ECE

Peha, Jon
Professor – EPP; Courtesy Professor – ECE

Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security
**Perrig, Adrian** Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab

**Keywords**

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

**Peters, Janet M.** Manager of Undergraduate Advising – ECE

**Phelps, Shelley** Senior Administrative Coordinator – ECE

**Piazza, Gianluca** (Gian) Professor – ECE; Director – Nanofab

**Keywords**

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

**Pileggi, Larry** Tanoto Professor – ECE

**Keywords**

Design, implementation and modeling of electronic integrated systems

**Pileggi, Leah** Professional Writer – ECE; Professional Assistant – ECE

**Platzer, Andre** Assistant Professor – CS, ECE

**Keywords**

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

**Prelich-Knight, Lyz** Academic Services Coordinator – ECE

**Rajkumar, Raj** Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory

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For more information, please visit the following links:

- [adrian@ece.cmu.edu](mailto:adrian@ece.cmu.edu)
- [jmpeters@andrew.cmu.edu](mailto:jmpeters@andrew.cmu.edu)
- [sphelps@ece.cmu.edu](mailto:sphelps@ece.cmu.edu)
- [piazza@ece.cmu.edu](mailto:piazza@ece.cmu.edu)
- [pileggi@ece.cmu.edu](mailto:pileggi@ece.cmu.edu)
- [leahp1@andrew.cmu.edu](mailto:leahp1@andrew.cmu.edu)
- [aplatzer@cs.cmu.edu](mailto:aplatzer@cs.cmu.edu)
- [lyz@ece.cmu.edu](mailto:lyz@ece.cmu.edu)
- [raj@ece.cmu.edu](mailto:raj@ece.cmu.edu)
Keywords

Embedded and real-time systems
Ramakrishnan, Bhiksha Raj Courtesy bhiksha@cs.cmu.edu
Professor – ECE; Associate Professor – LTI
Reddy, Raj Courtesy reddy@cs.cmu.edu
Professor – ECE; Mozah Bint Nasser University Professor – CS
Reif, Brian Temporary Employee - Engagement and Annual Giving – ECE
Ricketts, David Adjunct Professor – ECE ricketts@ece.cmu.edu

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits
Rohde, Gustavo K. Associate gustavor@andrew.cmu.edu
Professor – BME; Courtesy Professor – ECE
Rohrer, Ronald A. Emeritus rohrer@ece.cmu.edu
Professor – ECE

Keywords

Electronic circuits, systems design automation
Rosvanis, James Nanofab (412)-268-1375
Technician – Nanofab rosvanis@andrew.cmu.edu
Rowe, Anthony Associate (412)-268-4856 agr@ece.cmu.edu
Professor – ECE

Keywords

Embedded systems, distributed systems, sensor networks
Rutenbar, Rob A. Adjunct Professor – ECE rutenbar@ece.cmu.edu

Keywords

VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition
Rybski, Paul E. Systems (412)-268-7417
Scientist – RI; Adjunct Professor – ECE prybski@cs.cmu.edu

Keywords

Human/robot interaction, mobile robotics
Salvador, Paul A. Associate Professor – MSE; Affiliated Faculty – DSSC  
(412)-268-2702  
paul7@andrew.cmu.edu

Sankaranarayanan, Aswin Assistant Professor – ECE  
(412)-268-1087  
saswin@ece.cmu.edu

Santhanam, Suresh Process Engineer – ECE  
(412)-268-2026  
ss9s@andrew.cmu.edu

Santos, Augusto Post Doctoral Research Associate – ECE  
(412)-268-9499  
augustos@andrew.cmu.edu

Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE  
(412)-268-3743  
satya@cmu.edu

Savvides, Marios Research Professor – ECE; Director – CyLab Biometrics Center  
(412)-268-1142  
marioss@andrew.cmu.edu

Keywords

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed) Adjunct Professor – ECE  
ed@ece.cmu.edu

Keywords

Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE  
(650)-335-2853  
jeff4@andrew.cmu.edu

Scott, Stephanie Academic Program Advisor – ECE  
scottsm@andrew.cmu.edu

Keywords

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

Serafin, Stephen Senior Systems Engineer – ECE  
(412)-268-5716  
sserafin@ece.cmu.edu

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE  
(412)-268-8734  
srini@cmu.edu
Keywords

Network protocols, applications, distributed systems, mobile computing, wireless networks

Shaw, David Post Doctoral Research Associate – ECE  
(412)-268-7114  
dashaw@ece.cmu.edu

Shen, John Professor – ECE  
jpshen@cmu.edu

Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling

Siewiorek, Daniel Buhl University Professor – ECE, CS; Director – HCII  
(412)-268-2570  
dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing

Singh, Bob Adjunct Instructor – ECE-SV  
bob.singh@west.cmu.edu

Sinopoli, Bruno Associate Professor – ECE, RI, MechE  
(412)-268-9432  
brunos@ece.cmu.edu

Keywords

Networked embedded control systems, sensors/actuators networks, control theory

Sirbu, Marvin Professor – EPP; Courtesy Professor – ECE  
(412)-268-3436  
sirbu@cmu.edu

Keywords

Telecommunications policy and economics

Sitti, Metin Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC  
(412)-268-3632  
sitti@cmu.edu

Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

Skowronski, Marek Courtesy Professor – ECE; Professor – MSE; Affiliated Faculty – DSSC  
(412)-268-2710  
ms3s@andrew.cmu.edu

Smailagic, Asim Courtesy Professor – ECE; Research Professor – ICES; Director – LINCS  
(412)-268-7863  
asim@ices.cmu.edu
Keywords

Mobile computing, computer architecture, system design methods, wearable computers

Smith Jr., Robert E. Senior Windows Systems Engineer – ECE (412)-268-6033 robsmith@cmu.edu

Smola, Alex Professor – MLD; Courtesy Professor – ECE (408) 759-1044 smola@andrew.cmu.edu

Snizaski, Nathan Ph.D. Academic Program Advisor – ECE 412-268-3200 nsnizask@andrew.cmu.edu

Sokalski, Vincent Assistant Research Professor – MSE; Affiliated Faculty – DSSC (412)-268-8628 vsokalsk@andrew.cmu.edu

Song, Dawn Adjunct Professor – ECE xds@andrew.cmu.edu

Sreenath, Koushil Courtesy Professor – ECE; Assistant Professor – RI koushils@andrew.cmu.edu

Stancil, Daniel Adjunct Professor – ECE ddstancil@ncsu.edu

Keywords

Wireless communications, nanophotonics, spin wave devices

Steenkiste, Peter Professor – ECE, CS (412)-268-3261 prs@cs.cmu.edu

Keywords

Computer networks, distributed systems, pervasive computing

Stern, Richard Professor – ECE, LTI, CS, BME; Lecturer – Music (412)-268-2535 rms@ece.cmu.edu

Keywords

Automatic speech recognition, auditory perception, signal processing

Stevens, Dave Facilities Assistant – ECE 412-268-2470 daves@andrew.cmu.edu

Stevenson, Kayleigh Finance and Business Assistant – ECE (412)-268-8745 kayleigh@ece.cmu.edu

Strojwas, Andrzej Keithley Professor – ECE (412)-268-3530 ajs@ece.cmu.edu

Keywords

Statistically based CAD/CAM of VLSI circuits
Sullivan, Tom  Associate Teaching Professor – ECE; Lecturer – Music  (412)-268-3351  tms@ece.cmu.edu

Keywords
Audio signal processing, music and sound recording applications

Sundar, Vignesh  Post Doctoral Research Associate – DSSC  vigneshs@andrew.cmu.edu

Tague, Patrick  Associate Research Professor – CyLab, INI, ECE  (650)-335-2827  patrick.tague@sv.cmu.edu

Keywords
Network security; Wireless networking

Talukdar, Sarosh  Emeritus Professor – ECE  (412)-268-8778  talukdar@ece.cmu.edu

Keywords
Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying  Assistant Professor – JIE; Visiting Professor – ECE  (412) 268-5244  txiaoyin@ece.cmu.edu

Thomas, Donald  Professor – ECE  (412)-268-3545  thomas@ece.cmu.edu

Keywords
Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua  Systems Administrator – ECE  (412)-268-5888  jtims@ece.cmu.edu

Tomko, Jessica  Admissions Coordinator – ECE  (412)-268-4786  jtomko@andrew.cmu.edu

Tonguz, Ozan  Professor – ECE  (412)-268-5991  tonguz@ece.cmu.edu

Keywords
Optical networks, wireless networks and communications systems, and high-speed networking

Towe, Elias  Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT  (412)-268-8091  towe@cmu.edu
Keywords

Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

Treuille, Adrien  Courtesy  
Professor – ECE; Assistant Professor – CS  treuille@cs.cmu.edu

Ustun, Taha Selim  Assistant Teaching  (412)-268-4862 
Professor – ECE  ustun@cmu.edu

Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

Vaclav, Robyn  Temporary Employee  rmmoore@ece.cmu.edu 
Services - Sponsored Research  Administration – ECE

Vadnais, Olivia  Administrative  (412)-268-9192 
Coordinator – ECE  orv@andrew.cmu.edu

Veloso, Manuela  Professor – CS; Courtesy  mmv@cs.cmu.edu 
Professor – ECE

Veríssimo, Paulo  Adjunct Professor – ECE  pjm@di.fc.ul.pt 
Vidal Alvarez, Gabriel  Post Doctoral Research Associate – ECE  gvidal@andrew.cmu.edu

Vieira, Deb  Senior Multimedia Designer – ECE  (412)-268-5032 
debraost@ece.cmu.edu

Wang, Kai  Assistant  412.268.7786 
Professor – JIE; Adjunct Professor – ECE  wangkai@andrew.cmu.edu

Wang, Yao  Post Doctoral Research Associate – ECE  (412)-268-6726 
yaowang@ece.cmu.edu

Wasserman, Anthony  Adjunct Professor – ECE  (650)-335-2807 
tonyw@cmu.edu

Weiler, Mark  Equipment Manager, Nanofabrication Facility – ECE  mweiler@andrew.cmu.edu

Weiss, Lee  Courtesy  lew@andrew.cmu.edu 
Professor – ECE; Research Professor – RI

Weldon, Jeffrey  Assistant Professor – ECE (412)-268-6940 
jweldon@ece.cmu.edu
Keywords

Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

Wen, Tianlong Post Doctoral Research Associate – Physics, DSSC (412)-268-2319

White, Robert M Emeritus University Professor – ECE, EPP; Affiliated Faculty – DSSC white@ece.cmu.edu

Keywords

Magnetic nanotechnology

Will, Regis Senior Systems Engineer – ECE (412)-268-3126 rwill@andrew.cmu.edu

Wing, Jeannette M President's Professor – CS; Courtesy Professor – ECE (412)-268-3068 wing@cs.cmu.edu

Keywords

Specification, verification, reliability, security, distributed systems, software engineering, programming languages

Woodhead, Vickie Undergraduate Advisor – ECE (412) 268-4425 woodhead@ece.cmu.edu

Wright, Brittany Temporary Employee Services - Academic Services Center – ECE bwright1@andrew.cmu.edu

Keywords

Wireless communications, network science, security, social networks, cyber-physical networks

Yankasky, Shauntae Academic Advising Support – ECE (412)-268-6581 scyank@andrew.cmu.edu

Ydstie, B. Erik Professor – ChemE; Courtesy Professor – ECE ydstie@andrew.cmu.edu

Ye, Terry Associate Professor – JIE; Visiting Professor – ECE (412) 268-7750 terryye@ece.cmu.edu
Yu, Zhiyi  Associate Professor – JIE; Visiting Professor – ECE  (412) 268-5401  zhiyiyu@andrew.cmu.edu

Keywords

Multi-core processors, Network-on-chip, Digital VLSI

Yu, Byron  Associate Professor – ECE; Assistant Professor – BME  (412)-268-9658  byronyu@cmu.edu

Keywords

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

Z

Zhang, Jun  Assistant Professor – JIE; Visiting Professor – ECE  (412) 268-3935  junz2@ece.cmu.edu

Zhang, Jia  Associate Teaching Professor – ECE  jia.zhang@sv.cmu.edu

Zhang, Joy  Adjunct Professor – ECE  (650)-335-2824  joy@cs.cmu.edu

Zhang, Pei  Associate Research Professor – ECE  (650)-335-2823  peizhang@cmu.edu

Keywords

Sensor Networks, Embedded Systems

Zhang, Hui  Professor – CS; Courtesy Professor – ECE  (412)-268-8945  hzhang@cs.cmu.edu

Keywords

Computer networks, internet, resource management, multimedia

Zhu, Jimmy  Co-Director – JIE; ABB Professor – ECE; Professor – MSE, Physics; Director – DSSC  (412)-268-8373  jzhu@ece.cmu.edu

Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

Ziccardi, Chad  Principal Systems Engineer – ECE  (412)-268-4453  ziccardi@ece.cmu.edu

Zurcher, Elaine  Systems Administrator – ECE  (412)-268-1210  egadd@ece.cmu.edu