

Faculty directory

Name	Phone	Fax	Email	Office
Bain, Jim Professor -- ECE, MSE; Associate Director -- DSSC Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording	8-3602	8-4585	jbain@ece	342 REH
Bareiss, Ray Director of Educational Programs -- Carnegie Mellon Silicon Valley; Professor of the Practice -- ECE, Carnegie Mellon Silicon Valley	(650)-335-2801		bareiss@cs	104 Building 23
Bauer, Lujo Assistant Research Professor -- CyLab, ECE Computer security, access control, program monitoring, security automata, policy specification	8-9745	8-6779	lbauer@cmu.edu	2121 CIC
Bhagavatula, Vijayakumar Professor -- ECE; Associate Dean of Faculty and Graduate Affairs -- CIT Coding and signal processing for data storage, biometrics, pattern recognition	8-3026	8-6345	kumar@ece	B205 HH
Bianchini, Ronald Adjunct Professor -- ECE Distributed fault-tolerant computing and computer networks	(412)-968-9110	(412)-968-9230	rpb@ece	Spinnaker Networks
Blanton, Shawn Professor -- ECE; Director -- CSSI Test and diagnosis of heterogeneous, integrated systems	8-2987	8-1374	blanton@ece	2109 HH
Brumley, David Assistant Professor -- ECE, CS	8-3851		dbrumley@cs	2122 CIC
Bryant, Randal Dean -- SCS; Professor -- CS, ECE Formal hardware and software verification	8-8821	8-5577	bryant@cs	4301 NSH
Carley, Rick ST Microelectronics Professor -- ECE CAD and design of analog signal processing circuits and MEMS systems	8-3597	8-2859	lrc@ece	2119 HH
Casent, David Emeritus George Westinghouse Professor -- ECE Pattern recognition, neural nets, ATR image processing, product inspection, biometric image processing	8-2464	8-6345	casent@ece	B202 HH
Cendes, Zoltan Adjunct Professor -- ECE; Chief Technical Officer, Chairman of the Board -- Ansoft Corporation Computer-aided design of high-speed digital interconnects, microwave and antenna field simulation				
Charap, Stanley Emeritus Professor -- ECE Applied magnetism with particular emphasis on magnetic recording	8-3563	8-3497	charap@ece	248 REH
Chen, Tsuhan Adjunct Professor -- ECE Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics	8-7536	8-3890	tsuhan@ece	



Faculty directory

Name	Phone	Fax	Email	Office
Choset, Howie Associate Professor -- RI, ECE Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls	8-2495		choset@ri	3211 NSH
Christin, Nicolas Associate Director -- INI; Systems Scientist -- INI, CyLab, ECE	8-4432		nicolasc@andrew	2108 CIC
Clarke, Edmund FORE Systems Professor -- CS; Professor -- ECE Hardware and software verification, automatic theorem proving, symbolic computation	8-2628	8-5574	emc@cs	7117 WEH
Cranor, Lorrie Associate Professor -- ISR, EPP, ECE Usable privacy and security	8-7534		lorrie@cs	2207 CIC
Datta, Anupam Assistant Research Professor -- CyLab, ECE, CS			danupam@andrew	
Davidson, Art Courtesy Employee -- ECE Device physics, quantum devices, nonlinear dynamics, MEMS based storage and systems, systems theory or organizations, management and leadership	8-7946	8-1374	artdav@ece	2106 HH
Davis, Robert John and Claire Bertucci Distinguished Professor -- MSE, ECE	8-7264	8-3113	rfd@andrew	237 REH
Dolan, John Senior Systems Scientist -- RI, ECE mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing	8-7988		jmd@cs	
Faloutsos, Christos Professor -- CS, ECE Databases, data mining, multimedia indexing, performance evaluation	8-1457		christos@cs	4126 WEH
Falsafi, Babak Adjunct Professor -- ECE, CS Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools			babak.falsafi@epfl.ch	
Fedder, Gary Howard M. Wilkoff Professor -- ECE, RI; Director -- ICES; Co-Director -- MEMS Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics	8-8443	8-9687	fedder@ece	1201C HBH
Feenstra, Randy Professor -- Physics, ECE Molecular beam epitaxy, scanning tunneling microscopy	8-6961		feenstra@andrew	6408 WEH
Franchetti, Franz Assistant Research Professor -- ECE Automatic performance tuning, digital signal processing transforms, advanced architectures	8-8297	8-3890	franzf@ece	B29 PH



Faculty directory

Name	Phone	Fax	Email	Office
Gandhi, Rajeev Systems Engineer -- ECE Wireless systems, multimedia compression, signal processing/compression	8-4922		rgandhi@ece	B210 HH
Ganger, Greg Jatras Professor -- ECE, CS; Director -- PDL cloud computing, storage/file systems, operating systems, distributed systems	8-1297	8-6779	ganger@ece	2208 CIC
Gibson, Garth Professor -- CS, ECE Computer architecture, operating systems, file systems, disk arrays	8-5890		garth@cs	9111 GHC
Glick, Madeleine Principal Researcher -- Intel Research Pittsburgh; Adjunct Professor -- ECE	(412)-297-4204		mglick2@andrew	4720 Forbes Avenue
Gligor, Virgil Professor -- ECE; Co-Director -- CyLab	8-9833	8-6779	virgil@andrew	2123 CIC
Goldstein, Seth Associate Professor -- CS, ECE Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture	8-3828		seth@cs	7122 WEH
Greve, David Professor -- ECE Semiconductor device physics and semiconductor process technology, sensors	8-3707	8-2860	dg07@andrew	231 REH
Griss, Martin Associate Dean for Research -- Carnegie Mellon Silicon Valley; Professor -- ECE	(650)-335-2805		martin.griss@west	224 Building 23
Harchol-Balter, Mor Associate Professor -- CS, ECE Scheduling of computer systems, workload characterization, heavy-tailed distributions	8-7893	8-5576	harchol@andrew	
Higgs, Fred Assistant Professor -- MechE, ECE Tribology, nanomanufacturing, multi-scale particle flows	8-2486	8-3348	higgs@andrew	309 SH
Hills, Alex Distinguished Service Professor -- EPP; Professor -- ECE Research in wireless technology and telecommunications policy	(907)-232-6088	8-3757	ahills@cmu.edu	129F BH
Hoburg, James Professor -- ECE Electromagnetics, electromechanics, electrohydrodynamics, microfluidics	8-2473	8-2860	hoburg@ece	D208 HH
Hoe, James Professor -- ECE, CS; Associate Department Head -- ECE; Co-Director -- CALCM, ITRI Lab@CMU Computer architecture, high-level hardware description and synthesis	8-4259		jhoe@ece	1113 HH



Faculty directory

Name	Phone	Fax	Email	Office
Hollis, Ralph Research Professor -- RI, ECE Haptics, microassembly, dynamically stable mobile robots	8-8264	8-5570	rhollis@cs	121 EDSH
Hug, Gabriela Assistant Professor -- ECE power systems, optimization, control, energy networks, decomposition	8-5919	8-3890	ghug@ece	B16 PH
Ilic, Marija Professor -- ECE, EPP Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies	8-9520		milic@ece	B25 PH
Islam, Mohammad Assistant Professor -- ChemE, MSE, ECE	8-8999		mohammad@andrew	4315 WEH
Jackson, Collin Assistant Research Professor -- Carnegie Mellon Silicon Valley, ECE			collin.jackson@sv	
Jordan, Angel Emeritus Keithley University Professor -- ECE, RI Advanced video systems, robotics	8-2590	8-2860	ajordan@cs	4618 WEH
Kanade, Takeo U.A. and Helen Whitaker Professor -- CS, RI; Professor -- ECE Computer vision, autonomous systems, medical robotics	8-3016		tk@cs	4119 NSH
Kar, Soumya Assistant Research Professor -- ECE	8-8962		soumyak@andrew	B18 PH
Kherat, Sam Adjunct Faculty -- ECE			kherat@andrew	
Khosla, Pradeep Dean -- CIT; Phillip and Marsha Dowd Professor -- ECE, RI; Co-Director -- CyLab agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks	8-5090	8-6421	pkk@ece	110 SH
Kim, Hyong Drew D. Perkins Professor -- ECE Advanced switch and network architectures, fault-tolerant network architectures, network management and control	8-6491	8-3890	kim@ece	B17 PH
Koopman, Philip Associate Professor -- ECE, CS distributed embedded systems, survivable system architecture, dependability	8-5225	8-6353	koopman@cmu.edu	A308 HH
Kovacevic, Jelena Professor -- BME, ECE; Co-Director -- Center for Bioimage Informatics Signal processing, biomedical, wavelets, frames, multiresolution, communications	8-2662	8-4228	jelenak@cmu.edu	C121 HH



Faculty directory

Name	Phone	Fax	Email	Office
Krogh, Bruce Professor -- ECE 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	8-2472	8-3890	krogh@ece	B26 PH
Kryder, Mark University Professor -- ECE; Chief Technical Officer and Senior Vice President of Research (Retired) -- Seagate Magnetic recording, optical recording and ferroelectric materials	8-3513	8-6978	kryder@ece	235 REH
Lambeth, David Professor -- ECE, MSE Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices	8-3674	8-4916	lambeth@ece	329 REH
Lanza, Lucio Visiting Professor -- ECE			luciol@andrew	
Laughlin, David ALCOA Professor -- MSE; Professor -- ECE Magnetic materials, material science, electron microscopy, x-ray diffraction	8-2706	8-3113	dl0p@andrew	236 REH
Li, Xin Assistant Professor -- ECE Integrated circuits, computer-aided design	8-6507		xinli@ece	2123 HH
Lohn, Jason Associate Research Professor -- ECE; Senior Research Scientist -- Carnegie Mellon Silicon Valley	(650)-335-2802		jason.lohn@sv	221 Building 23
Luo, Yi Assistant Professor -- ECE Nanoelectronic devices, molecular electronics, nanoscale materials and fabrication techniques	8-5401		yl827@ece	249 REH
Mai, Ken Assistant Professor -- ECE Digital circuit design, computer architecture, memory design, reconfigurable computing	8-8335	8-1374	kenmai@ece	2121 HH
Maly, Wojciech U.A. and Helen Whitaker Professor -- ECE Computer-aided design and manufacturing of VLSICs	8-6637	8-1374	maly@ece	2118 HH
Marculescu, Diana Professor -- ECE VLSI/computer architecture, energy aware computing, CAD for integrated systems	8-1167	8-2859	dianam@ece	2124 HH
Marculescu, Radu Professor -- ECE Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.	8-8710	8-1374	radum@ece	2108 HH
Maxion, Roy Research Professor -- CS, ECE Computer dependability and security; information warfare; intrusion detection; system diagnosis	8-7556	8-5578	maxion@cs	4612 WEH



Faculty directory

Name	Phone	Fax	Email	Office
McCoy, Timothy	(412)-963-1032 x114	(412)-967-1261	timothy.mccoy@converteam- navsys.com	Converteam North America
Adjunct Professor -- ECE; Director, Research and Development -- Converteam North America				
Messner, Bill	8-2510	8-3348	bmessner@andrew	307 SH
Professor -- MechE, ECE Controls for data storage systems, robots, biology				
Milnes, Art				
Emeritus Buhl Professor -- ECE				
Morgan, Granger	8-2672		gm5d@andrew	129C BH
Professor -- ECE, Heinz; Lord Professor, Department Head -- EPP Technology and policy including climate change and electric power				
Morris, James	(412)-609-5000		james.morris@sv	217A Building 23
Dean -- Carnegie Mellon Silicon Valley; Professor -- CS, ECE				
Moura, José	8-6341	8-3890	moura@ece	B20 PH
University Professor -- ECE, BME; Director -- ICTI Communications, statistical signal/image, video, and multimedia processing, wavelet transforms				
Mowry, Todd	8-3725	8-5576	tcm@cs	8123 WEH
Associate Professor -- CS, ECE; Co-Director -- CALCM Computer architecture, compilers, operating systems, parallel processing				
Mukherjee, Tamal	8-8522	8-9687	tamal@ece	332 REH
Professor -- ECE Analog/RF/MEMS/biofluidic microsystem design				
Mutlu, Onur	8-1186		onur@cmu.edu	A305 HH
Assistant Professor -- ECE, CS Computer architecture, hardware/software interaction, operating systems, fault tolerance				
Nace, Bill	8-7027		wnace@cmu.edu	D207 HH
Assistant Teaching Professor -- ECE Digital Design, Embedded Systems, Networks				
Narasimhan, Priya	8-8801	8-1124	priya@cs	2202 CIC
Associate Professor -- ECE fault tolerance, distributed systems, embedded systems, mobile systems				
Negi, Rohit	8-6264	8-6345	negi@ece	B209 HH
Professor -- ECE Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory				
Neuman, Charles	8-2460	8-2860	cpn@ece	A302 HH
Professor -- ECE Control engineering and robotics				



Faculty directory

Name	Phone	Fax	Email	Office
O'Hallaron, David Professor -- CS, ECE; Director -- Intel Research Pittsburgh Scientific computing, parallel computing, computational database systems, and virtualization	8-8199	8-5576	droh@cs	9125 GHC
Paramesh, Jeyanandh Assistant Professor -- ECE Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design	8-1290	8-1374	paramesh@ece	2120 HH
Peha, Jon Professor -- EPP, ECE Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security	8-7126		peha@ece	129B BH
Perrig, Adrian Professor -- ECE, EPP, CS; Technical Director -- CyLab Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.	8-2242	8-6779	adrian@ece	2110 CIC
Piazza, Gianluca (Gian) Associate Professor -- ECE MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS	8-7762		piazza@ece	333 REH
Pileggi, Larry Tanoto Professor -- ECE Design, implementation and modeling of electronic integrated systems	8-6774	8-1374	pileggi@ece	2113 HH
Platzer, Andre Assistant Professor -- CS, ECE Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods	8-1558		aplatzer@cs	9103 GHC
Püschel, Markus Adjunct Professor -- ECE Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)	8-3804	8-3890	pueschel@ece	
Rajkumar, Raj Professor -- ECE, CS; Co-Director -- GM-CM CRL; Director -- Real-Time and Multimedia Systems Laboratory Embedded and real-time systems	8-8707	8-3890	raj@ece	2203 CIC
Reiser, Hans Faculty -- ECE	8-4003		hpreiser@andrew	A314 HH
Reiter, Michael Adjunct Professor -- ECE Computer security, distributed computing, applied cryptography			reiter@unc.edu	
Ricketts, David Assistant Professor -- ECE Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits	8-3847		ricketts@ece	331 REH



Faculty directory

Name	Phone	Fax	Email	Office
Rohde, Gustavo Assistant Professor -- BME, ECE			gustavor@andrew	
Rohrer, Ronald Emeritus Professor -- ECE Electronic circuits, systems design automation			rohrer@ece	
Rowe, Anthony Assistant Research Professor -- ECE Embedded systems, distributed systems, sensor networks	8-4856		agr@ece	2217 CIC
Rutenbar, Rob Adjunct Professor -- ECE VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition	8-3334	8-1374	rutenbar@ece	
Rybski, Paul Systems Scientist -- RI, ECE Human/robot interaction, mobile robotics	8-7417		prybski@cs	4531 NSH
Satyanarayanan, Mahadev Carnegie Professor -- CS; Professor -- ECE	8-3743	8-4136	satya@cmu.edu	8208 WEH
Savvides, Marios Associate Research Professor -- ECE; Director -- CyLab Biometrics Center Biometric identification, pattern recognition, computer and robot vision, image understanding, image and signal processing	8-1142	8-6345	marios@andrew	A206 HH
Schlesinger, T.E. (Ed) David Edward Schramm Professor, Department Head -- ECE Semiconductor devices, information storage, optoelectronic systems	8-8728	8-5787	ed@ece	1106 HH
Seshan, Srinivasan Associate Professor -- CS, ECE Network protocols, applications, distributed systems, mobile computing, wireless networks	8-8734	8-5576	srini@cmu.edu	8113 WEH
Siewiorek, Daniel Buhl University Professor -- ECE, CS; Director -- HCII Computer architecture, reliability, context aware mobile computing	8-2570	8-5576	dps@ece	4515 NSH
Sinopoli, Bruno Assistant Professor -- ECE, RI, MechE networked embedded control systems, sensors/actuators networks, control theory	8-9432	8-3890	brunos@ece	B30 PH
Sirbu, Marvin Professor -- EPP, ECE, Tepper Telecommunications policy and economics	8-3436	8-3757	sirbu@cmu.edu	129K BH
Sitti, Metin Associate Professor -- MechE, RI, ECE Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS	8-3632	8-3348	msitti@andrew	320 SH



Faculty directory

Name	Phone	Fax	Email	Office
Smailagic, Asim Research Professor -- ECE, ICES; Director -- LINCSS Mobile computing, computer architecture, system design methods, wearable computers	8-7863		asim@ices	1217 HBH
Song, Dawn Adjunct Professor -- ECE, CS Computer and networking security, operating systems security, software security, cryptography, database security, networking, algorithms			dawnsong@cmu.edu	
Stancil, Daniel Adjunct Professor -- ECE Wireless communications, nanophotonics, spin wave devices			ddstancil@ncsu.edu	
Steenkiste, Peter Professor -- ECE, CS Computer networks, distributed systems, pervasive computing	8-3261	8-5576	prs@cs	9107 GHC
Stern, Richard Professor -- ECE, LTI, CS, BME; Lecturer -- Music Automatic speech recognition, auditory perception, signal processing	8-2535	8-3890	rms@ece	B24 PH
Strojwas, Andrzej Keithley Professor -- ECE Statistically based CAD/CAM of VLSI circuits	8-3530	8-1374	ajs@ece	2107 HH
Sullivan, Tom Associate Teaching Professor -- ECE; Lecturer -- Music Audio signal processing, music and sound recording applications	8-3351	8-1124	tms@ece	A209 HH
Tague, Patrick Assistant Research Professor -- Carnegie Mellon Silicon Valley, CyLab, ECE, INI Network security; Wireless networking	(650)-335-2827	(650)-603-7032	patrick.tague@sv	222 Building 23
Talukdar, Sarosh Emeritus Professor -- ECE Autonomous agents, distributed control, power systems, cascading failures	8-8778	8-2860	talukdar@ece	A303 HH
Thomas, Donald Professor -- ECE Computer-aided design of single chip heterogeneous multiprocessing systems	8-3545	8-1374	thomas@ece	2111 HH
Tonguz, Ozan Professor -- ECE Optical networks, wireless networks and communications systems, and high-speed networking	8-5991		tonguz@ece	B203 HH
Towe, Elias Professor -- ECE; Albert and Ethel Grobstein Memorial Professor -- MSE; Director -- CNXT Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.	8-8091		towe@cmu.edu	147 REH



Faculty directory

Name	Phone	Fax	Email	Office
van Doorn, Leendert Adjunct Professor -- ECE; Senior Fellow -- AMD Virtualization, operating systems, systems security and trusted computing	(512)-602-6786		leendert@ece	
Veríssimo, Paulo Professor -- University of Lisboa, Portugal; Adjunct Professor -- ECE			pjv@di.fc.ul.pt	
Wasserman, Anthony Professor of Software Engineering Practice -- Carnegie Mellon Silicon Valley, ECE; Director, Software Management Program, Executive Director, Center for Open Source Investigation -- Carnegie Mellon Silicon Valley	(650)-335-2807		tonyw@cmu.edu	124 Building 23
Weldon, Jeffrey Assistant Professor -- ECE	8-6940		jweldon@ece	2110 HH
White, Robert Emeritus University Professor -- ECE, EPP Magnetic nanotechnology	8-6916	(225)-410-1297	white@ece	247 REH
Wing, Jeannette President's Professor -- CS; Professor -- ECE Specification, verification, reliability, security, distributed systems, software engineering, programming languages	8-3068		wing@cs	4220 WEH
Ydstie, B. Erik Professor -- ChemE, ECE	8-2235		ydstie@andrew	2208 DH
Yu, Byron Assistant Professor -- BME, ECE Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems	8-9658	8-6345	byronyu@cmu.edu	B204 HH
Zhang, Hui Professor -- CS, ECE Computer networks, internet, resource management, multimedia	8-8945		hzhang@cs	7115 WEH
Zhang, Joy Assistant Research Professor -- Carnegie Mellon Silicon Valley, ECE	(650)-335-2824		joy@cs	
Zhang, Pei Assistant Research Professor -- Carnegie Mellon Silicon Valley, ECE Sensor Networks, Embedded Systems	(650)-335-2823		peizhang@cmu.edu	218 Building 23
Zhu, Jimmy ABB Professor -- ECE; Professor -- MSE, Physics; Director -- DSSC Micromagnetics, magnetoelectronic devices, magnetic recording	8-8373	8-8554	jzhu@ece	348 REH

