

**Pat Pannuto**  
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EDUCATION     ***University of Michigan, Ann Arbor***

*Advisor: Prabal Dutta*

Ph.D. Student

***University of Michigan, Ann Arbor, 2012***

B.S.Eng in Computer Engineering

RESEARCH     *Wireless and Sensor Networks, Internet of Things, (Extremely) Low-Power Systems, Net-*

INTERESTS     *working, Security, Configuration Automation, Platforms and Integration*

### ***Conference, Workshop, and Technical Report Publications***

1. Noah Klugman, Javier Rosa, **Pat Pannuto**, Matthew Podolsky, William Huang, and Prabal Dutta. Grid Watch: Mapping blackouts with smart phones. In *Proceedings of the 15th Workshop on Mobile Computing Systems and Applications*, HotMobile '14, New York, NY, USA, Feb 2014. ACM
2. Yoonmyung Lee, Suyoung Bang, Inhee Lee, Yejoong Kim, Gyouho Kim, Mohammed Hassan Ghaed, Pat Pannuto, Prabal Dutta, Dennis Sylvester, and David Blaauw. A modular 1 mm<sup>3</sup> die-stacked sensing platform with low power I<sup>2</sup>C inter-die communication and multi-modal energy harvesting. In *IEEE Journal of Solid-State Circuits*, volume 48, 2013
3. Ye-Sheng Kuo, **Pat Pannuto**, Thomas Schmid, and Prabal Dutta. Reconfiguring the software radio to improve power, price, and portability. In *Proceedings of the 10th ACM Conference on Embedded Networked Sensor Systems*, SenSys '12, New York, NY, USA, 2012. ACM
4. **Pat Pannuto** and Prabal Dutta. Exploring powerline networking for the smart building. In *Extending the Internet to Low power and Lossy Networks*, IP+SN '11, April 2011

### ***Demo & Poster Publications***

1. **Pat Pannuto**, Yoonmyung Lee, Zhiyoong Foo, David Blaauw, and Prabal Dutta. M3: A mm-scale wireless energy harvesting sensor platform. In *Proceedings of the 1st International Workshop on Energy Neutral Sensing Systems*, ENSSys '13, pages 17:1–17:2, New York, NY, USA, 2013. ACM
2. **Pat Pannuto**, Brad Campbell, and Prabal Dutta. GATD: A robust, extensible, versatile swarm dataplane. In *SEC'13: The First International Workshop on Swarm at the Edge of the Cloud*, Sep 2013
3. **Pat Pannuto**, Prabal Dutta, Brad Campbell, Sam DeBruin, Trey Grunnagle, William Huang, Ben Kempke, Ye-Sheng Kuo, Andrew Robinson, Aaron Schulman, Maya Spivak, and Lohit Yerva. Platforms and protocols for emerging wireless systems. Future of Mobile Computing Workshop, Mountain View, CA, USA, 2012. Google
4. **Pat Pannuto**, Yoonmyung Lee, Ben Kempke, Dennis Sylvester, David Blaauw, and Prabal Dutta. Ultra-constrained sensor platform interfacing. In *Proceedings of the 11th international conference on Information Processing in Sensor Networks*, IPSN '12, pages 147–148, New York, NY, USA, 2012. ACM

### ***Talks and Lectures***

1. “An Introduction to Git”. Invited Lecture, Michigan Hackers, University of Michigan. April 2012

### ***Awards and Grants***

- Qualcomm Innovation Fellowship Honorable Mention, Team Fellowship with Brad Campbell, \$50,000 (2013-2014)
- National Defense Science & Engineering Graduate Fellowship, \$95,000 plus tuition (2013–present)
- National Science Foundation Graduate Research Fellowship, \$90,000 plus tuition (2013, declined)

### ***Teaching, Service, and Honors***

- University of Michigan Department of Computer Science First-Year Fellowship (2012–2103)
- Best Undergraduate Instructor, University of Michigan, EECS (2011–2012)
- Undergraduate Teaching Assistant, EECS 470: Computer Architecture (W'12)
- Undergraduate Teaching Assistant, EECS 482: Introduction to Operating Systems (W'12, F'11, W'11, F'10)
- Undergraduate Teaching Assistant, EECS 373: Design of Microprocessor Based Systems (F'11, W'11)