

Ashutosh Dhekne
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4th Year PhD Candidate,
Computer Science,
University of Illinois at Urbana-Champaign

Education

- PhD candidate, UIUC (2014 –)
- Master of Technology, IIT Bombay, **CPI 9.49** (2007 – 2009)
- Bachelor of Engineering, Pune University, **Distinction** (2002 – 2006)

Awards

- Runners Up at Student Research Competition, Mobicom (2016)
- Richard T. Cheng Fellowship, UIUC (2014)
- Group Recognition Award, Intel (2012)

Publications

- LiquiD: A Wireless Liquid IDentifier
Ashutosh Dhekne, Mahanth Gowda, Yixuan Zhao, Haitham Hassanieh, Romit Roy Choudhury,
To appear in **MobiSys 2018**.
- If WiFi APs Could Move: A Measurement Study
Ashutosh Dhekne, Mahanth Gowda, Romit Roy Choudhury, Srihari Nelakuditi, **Transactions on Mobile Computing 2018**.
- Extending Cell Tower Coverage through Drones
Ashutosh Dhekne, Mahanth Gowda, Romit Roy Choudhury, **HotMobile 2017**.
- Bringing IoT to Sports Analytics
Mahanth Gowda, Ashutosh Dhekne, Sheng Shen, Romit Roy Choudhury, Xue Yang, Lei Yang, Alex Essanian, Suresh Golwalkar, **NSDI 2017**.
- SafetyNet: GPS Receivers as a Fallback for IMU Failures on Drones
Mahanth Gowda, Justin Manweiler, Ashutosh Dhekne, Romit Roy Choudhury, Justin Weisz, **Mobicom 2016**.
- The Case for Robotic Wireless Networks
Mahanth Gowda, Ashutosh Dhekne, Romit Roy Choudhury, **WWW 2016**.
- Esense: Energy Sensing based Cross-technology Communication
Kameshwari Chebrolu, Ashutosh Dhekne, **Transactions on Mobile Computing, 2013**
- Esense: Communication through Energy Sensing
Kameshwari Chebrolu, Ashutosh Dhekne, **Mobicom 2009**.
- Implementation and Evaluation of a TDMA MAC for WiFi-based Rural Mesh Networks
Ashutosh Dhekne, Nirav Uchat and Bhaskaran Raman, **NSDR 2009**

- Poster: Cell Tower Extension through Drones
Ashutosh Dhekne, Mahanth Gowda, Romit Roy Choudhury, Mobicom Poster 2016. (SRC 2nd Prize)
- Integrating GLONASS with GPS for drone orientation tracking
Mahanth Gowda, Justin Manweiler, Ashutosh Dhekne, Romit Roy Choudhury, Justin Weisz, COMSNETS 2017. (Invited Paper)

Professional Experience

Internship at **Intel** through Sequoia Applied Technologies (May 2016 – August 2016)

- Localizing fast moving objects using ultra-wide band radios
- Use in sports analytics for ball and player tracking

Internship at **Zendrive** (May 2015 – August 2015)

- Data analysis using mobile phones to determine mode of transportation
- Determining classification parameters of safe and unsafe driving such as rapid acceleration

Securifi (April 2013 – June 2014)

- Design and development of a cloud based infrastructure for home automation for Securifi's touchscreen routers.
- Mentoring juniors enabling them to understand the flow of commands from the router to the mobile application/WebUI through the cloud infrastructure.

Intel (July 2009 – April 2013)

- Design and development of Windows Graphics driver for Intel's tablet products on Win7, 8.
- Worked on **Intel WiDi** and **DPST** for tablets based on Windows and Android.
- Implementing features and debugging Graphics driver for meeting quality requirements of the **WHCK certification** program.
- Relocated to the UK from Aug 2011 – Dec 2011 for co-working with Imagination Technologies on the WHQL certification. Received **Group Recognition Award**.

Tech Mahindra (July 2006 – July 2007)

- Worked on the Order Fulfillment System project for British Telecom (BT).
- The system routed orders from BT front-ends to various BT associates and managed provisioning of products.
- Used J2EE, XML and Weblogic server to extend support to new BT products. Performance was judged "**Very Good**" in appraisals.