

**Ashutosh Dhekne**  
[dhekne2@illinois.edu](mailto:dhekne2@illinois.edu)  
261 Coordinated Science Lab  
1308 W Main St, Urbana  
IL 61801, USA

3<sup>rd</sup> Year PhD Student,  
Computer Science,  
University of Illinois at Urbana-Champaign

**DOB: Nov 18, 1984**

## Achievements

- Awarded the Richard T. Cheng Fellowship at University of Illinois at Urbana-Champaign
- **Five international papers, one poster and two journal articles**
- Awarded **Group Recognition Award** (2<sup>nd</sup> highest award at Intel) “For Cedarview Win7 driver project leadership”
- **Master of Technology**, Computer Science and Engineering, **IIT Bombay** with **9.49 CPI**
- GATE All India **Rank 42**
- **Bachelor of Engineering**, Computer Engineering, Pune University with **Distinction**
- Awarded **National Talent Search** Scholarship in India

## Publications

- 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 D. Weisz*, **Mobicom** 2016.
- If WiFi APs could Move: A Measurement Study, *Mahanth Gowda, Ashutosh Dhekne, Romit Roy Choudhury, Srihari Nelakuditi*, **Technical Report**
- Poster: Cell Tower Extension through Drones, *Ashutosh Dhekne, Mahanth Gowda, Romit Roy Choudhury*, **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 and Ashutosh Dhekne*, **Transactions on Mobile Computing**, Nov, 2013
- Esense: Communication through Energy Sensing, *Kameshwari Chebrolu and Ashutosh Dhekne*, **Mobicom** 2009, Sep 20-25, 2009
- Implementation and Evaluation of a TDMA MAC for WiFi-based Rural Mesh Networks, *Ashutosh Dhekne, Nirav Uchat and Bhaskaran Raman*, **NSDR** 2009

## Education

- PhD student at University of Illinois at Urbana-Champaign, **2014-current**
- Master of Technology in Computer Science, Indian Institute of Technology Bombay, **2007-2009**
- Bachelor of Engineering from Pune University, **2002-2006**

## Professional Experience

- Internship at 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 to determine mode of transportation
  - Determining some parameters of safe and unsafe driving such as rapid acceleration
- Securifi Embedded Systems Pvt. Ltd. (April 2013 – June 2014)
  - Design and development of a cloud based infrastructure for home automation for Securifi's touchscreen routers.
  - Implemented router to cloud server communication for instantaneous home automation updates between the cloud and the router.
  - Mentoring juniors enabling them understand the flow of commands from the router to the mobile application/WebUI through the cloud infrastructure.
- Intel Technology India Pvt. Ltd. (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 **United Kingdom** from Aug 2011 – Dec 2011 for co-working with Imagination Technologies on the WHQL certification. Received **Group Recognition Award**.
- Tech Mahindra Pvt. Ltd. (July 2006 – July 2007)
  - Worked on an 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.