Indrapra	ashta Institute of Information Technology Delhi	Delhi, India
PH.D. CAND	DIDATE, COMPUTER SCIENCE (GPA 9.3/10)	Jan 2012-Presen
Delhi Co	llege of Engineering	Delhi, India
Bachelors	of Engineering (Hons.), Computer Science (GPA 9/10)	Jul 2007 -April 2013
Hono	urs & Awards	
2016	Best video nominee, KDD 2016, Acceptance rate: 3.1%	San Francisco, USA
2016	Finalist in UChichago Delhi urban challenge, Acceptance rate: 3.6%	Delhi, India
2016	3rd position in IoT hackathon , Microsoft Research Summer School	Bangalore, India
2016	Google, Microsoft Research and KDD travel grant, KDD 2016	San Francisco, USA
2015	Best presentation award, Sensys 2015 Doctoral Colloqium	Seoul, South Kored
2015	ACM travel grant, Sensys 2015	Seoul, South Kored
2014	Best demo award, Buildsys 2014	Memphis, USA
2014	ACM travel grant, E-Energy 2014	Cambridge, Uk
2012	PhD fellowship, TCS Research and Development	
2012	Travel and lodging grant, Microsoft Research Summer School	Bangalore, Indic
2010	Systems engineering prize barrel, AUVSI's student UAS competition	Maryland, USA
2009	Young scientist travel grant, Department of Science and Technology (Govt. of India)	Delhi, India
2009	Director's award for best effort, AUVSI's student UAS competition	Maryland, USA
Resea	arch Experience	
IIIT Delh	i	Delhi, Indic
GRADUATE	RESEARCH ASSISTANT	Jan. 2012 - Present
University of Virginia (under Prof. Kamin Whitehouse)		Charlottesville, Virginia, USA
ISITING RE	SEARCHER	Jul. 2014 - Apr. 2015
Linux Ar	ndroid Network Systems Lab, Delhi College of Engineering	Delhi, Indic
Jndergra	DUATE RESEARCH INTERN	Dec. 2010 - Jun. 2011
Unmanned Aircraft Systems Lab, Delhi College of Engineering		Delhi, India
	DUATE RESEARCH INTERN	Dec. 2008 - Jul. 2010
Indus	strial Experience	
	ank of Scotland	Gurgaon, Indic
Software	Analyst	Jun. 2011 - Nov. 2011
	n Sachs	Bangalore, India
Goldma	NG INTERN	Jun. 2010 - Aug. 2010
Engineerii	ed Talks	
Engineerii Invit		California US
Invite 2016	Stanford University , Towards energy disaggregation for a 100 million homes	
Invite 2016 2015	Stanford University , Towards energy disaggregation for a 100 million homes University of Pennsylvania , If you can measure it, can you improve it?	Philadelphia, USA
2016 2015 2015	Stanford University, Towards energy disaggregation for a 100 million homes University of Pennsylvania, If you can measure it, can you improve it? Carnegie Mellon University, If you can measure it, can you improve it?	Philadelphia, USA
2016 2015 2015	Stanford University, Towards energy disaggregation for a 100 million homes University of Pennsylvania, If you can measure it, can you improve it? Carnegie Mellon University, If you can measure it, can you improve it? ESSIONAL Service	Philadelphia, USA
2016 2015 2015	Stanford University, Towards energy disaggregation for a 100 million homes University of Pennsylvania, If you can measure it, can you improve it? Carnegie Mellon University, If you can measure it, can you improve it?	Philadelphia, USA Pittsburgh, USA
Invite 2016 2015 2015 Profe	Stanford University, Towards energy disaggregation for a 100 million homes University of Pennsylvania, If you can measure it, can you improve it? Carnegie Mellon University, If you can measure it, can you improve it? ESSIONAL Service	California, USA Philadelphia, USA Pittsburgh, USA Canada Austin, Texas, USA

Publications _____

Conferences

- [C4] Nipun Batra, Amarjeet Singh, and Kamin Whitehouse. "If You Measure It, Can You Improve It? Exploring The Value of Energy Disaggregation". In: Proceedings of the second ACM International Conference on Embedded Systems For Energy-Efficient Built Environments. ACM. 2015.
- [C3] Nipun Batra, Jack Kelly, Oliver Parson, Haimonti Dutta, William Knottenbelt, Alex Rogers, Amarjeet Singh, and Mani Srivastava. "NILMTK: an open source toolkit for non-intrusive load monitoring". In: Proceedings of the 5th international conference on Future energy systems. ACM. 2014, pp. 265–276.
- [C2] <u>Nipun Batra</u>, Pandarasamy Arjunan, Amarjeet Singh, and Pushpendra Singh. "Experiences with Occupancy Based Building Management Systems". In: 2013, pp. 153–158.
- [C1] Nipun Batra, Haimonti Dutta, and Amarjeet Singh. "INDiC: Improved Non-Intrusive load monitoring using load Division and Calibration". In: 2013.

Workshops

- [W3] Oliver Parson, Grant Fisher, April Hersey, Nipun Batra, Jack Kelly, Amarjeet Singh, William Knottenbelt, and Alex Rogers. Dataport and NILMTK: a building data set designed for non-intrusive load monitoring. 2015.
- [W2] Nipun Batra, Manoj Gulati, Amarjeet Singh, and Mani B Srivastava. It's Different: Insights into home energy consumption in India. ACM, 2013.
- [W1] Pandarasamy Arjunan, Nipun Batra, Haksoo Choi, Amarjeet Singh, Pushpendra Singh, and Mani B. Srivastava. SensorAct: A Privacy and Security Aware Federated Middleware for Building Management. Toronto, Ontario, Canada, 2012. DOI: 10.1145/2422531.2422547. URL: http://doi.acm.org/10.1145/2422531.2422547.

Posters and Demos

- [P3] Nipun Batra, Manoj Gulati, Puneet Jain, Kamin Whitehouse, and Amarjeet Singh. Bits and watts: improving energy disaggregation performance using power line communication modems: poster abstract. ACM, 2014.
- [P2] Jack Kelly, Nipun Batra, Oliver Parson, Haimonti Dutta, William Knottenbelt, Alex Rogers, Amarjeet Singh, and Mani Srivastava. Demo abstract: NILMTK v0. 2: A Non-intrusive Load Monitoring Toolkit for Large Scale Data Sets. 2014.
- [P1] Pandarasamy Arjunan, Manaswi Saha, Manoj Gulati, Nipun Batra, Amarjeet Singh, and Pushpendra Singh. SensorAct: Design and Implementation of Fine-grained Sensing and Control Sharing in Buildings. 2013.

Tech. report

- [R4] Nipun Batra. Non Intrusive Load Monitoring: Systems, Metrics and Use Cases. 2015, pp. 501–502.
- [R3] Nipun Batra, Rishi Baijal, Amarjeet Singh, and Kamin Whitehouse. How good is good enough? Re-evaluating the bar for energy disaggregation. 2015.
- [R2] Nipun Batra, Amarjeet Singh, and Kamin Whitehouse. Neighbourhood NILM: A Big-data Approach to Household Energy Disaggregation. 2015.
- [R1] Nipun Batra, Amarjeet Singh, Pushpendra Singh, Haimonti Dutta, Venkatesh Sarangan, and Mani Srivastava. Data Driven Energy Efficiency in Buildings. 2014.