

Utkarsha Agwan

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Education

University of California, Berkeley

Electrical Engineering and Computer Science, *2018-current*

PhD, cumulative GPA: *4.0*

Indian Institute of Technology, Delhi

Electrical Engineering, *2014-2018*

Bachelor of Technology, cumulative GPA: *8.175/10*

Delhi Public School, Gurgaon

All India Secondary School Certificate, *2014*

Physics, Chemistry, Mathematics, Economics | *97.2%*

Key Courses

Convex Optimisation | Theoretical Statistics | Science, Technology & Society

Artificial Intelligence | Linear Systems and Control | Power Engineering

Non Linear Systems and Control | Machine Learning | Global Inequality and Growth

Research

Microgrid Energy Markets with Prosumers, *Aug 2018 - current*

Prof. Costas Spanos | RAISE Lab, UC Berkeley

Investigating the behaviour of commercial office buildings equipped with energy resources, possible strategies for cooperation and competition between buildings in a local energy market as well as controllers for microgrid markets

Building Occupant Impacts on Demand Flexibility, *Aug 2019 - current*

Dr Ioannis C. Konstantakopoulos, Prof. Costas Spanos | RAISE Lab, UC Berkeley

Modelling the utility functions of occupants in a commercial office building, utilising incentives to influence demand profiles in order to reduce energy costs

Peripheral support for System on a Chip, *Jun 2016 - Jul 2016*

Prof. Philip Levis | Stanford Information Networking Group, Stanford University

Adapted the operating system Tock to a new embedded systems platform by writing peripheral support in Rust for serial communication applications

Internships

Goldman Sachs, *May 2017 - Jul 2017*

Client Analytics, Synthetic Products Group

Developed calculation metrics to attribute balance sheet and funding needs to clients. Identified high priority clients; work used to attribute unallocated costs, create daily client reports; used by clients and sales teams

Awards and Fellowships

Design Innovation Student Award, 2015

Awarded by the Ministry of HRD, Govt. of India and IIT Delhi

KVPY Fellowship, 2013

Awarded by the Department of Science and Technology, Govt. of India

National Talent Search Examination Scholarship, 2010

Awarded the NTS Scholarship by NCERT

Service

Co-President, Women in CS and Engineering at Berkeley (WiCSE)