

Utkarsha Agwan

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Education	<p>Indian Institute of Technology, Delhi Electrical Engineering, <i>2014-2018 (expected)</i> Bachelor of Technology, cumulative GPA: <i>8.34/10</i></p> <p>Delhi Public School, Gurgaon All India Secondary School Certificate, <i>2014</i> Physics, Chemistry, Mathematics, Economics <i>97.2%</i></p>
Key Courses	<p>Physical Electronics Electromagnetics Power Engineering Machine Learning Data Structures Calculus Probability & Stochastic Processes Linear Algebra Human Virology Energy, Ecology & Environment Science, Technology & Society</p>
Undergrad Thesis	<p>Enhancing Organic Solar Cell Efficiency using Plasmonic Nanostructures Prof. Anuj Dhawan IIT Delhi <i>Jan 2017 - present</i> Enhanced absorption efficiency by embedding metallic nanoparticles in buffer layers in bulk heterojunction organic solar cells; used FDTD simulations to calculate electromagnetic field patterns; positive interference of plasmonic enhancements led to an observed peak in absorption intensities</p>
Test Scores	<p>GRE Verbal: 169 (<i>99th %ile</i>), Quant: 168 (<i>94th %ile</i>), Analytical: 5.5 (<i>98th %ile</i>)</p>
Research	<p>Peripheral support for System on a Chip, <i>Jun 2016 - Jul 2016</i> 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</p> <p>Image Super Resolution using Deep Learning, <i>Dec 2015 - Jul 2016</i> Prof. Subhasis Banerjee Vision and Graphics Lab, IIT Delhi Implemented a deep convolutional neural network for image enhancement by estimating motion blur kernels, aimed at detecting road signs from a car mounted camera to enable auto-navigation</p>
Internships	<p>Goldman Sachs, <i>May 2017 - Jul 2017</i> 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</p>
Awards and Fellowships	<p>Design Innovation Student Award, 2015 <i>Awarded by the Ministry of HRD, Govt. of India and IIT Delhi</i></p> <p>KVPY Fellowship, 2013 <i>Awarded by the Department of Science and Technology, Govt. of India</i></p> <p>National Talent Search Examination Scholarship, 2010 <i>Awarded the NTS Scholarship by NCERT</i></p>