

# Kushagra Gupta

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gupta1000.github.io

## Education

**University of Illinois at Urbana-Champaign**, BS. Computer Engineering, Junior *Champaign, IL, 2016-20*  
Provost Scholarship - One of 30 students to receive Full Tuition scholarship for academic excellence **GPA: 3.96/4.00**  
Chancellor's Scholar, Engineering James Scholar - One of 125 students to participate in honors curriculum

**The Hoeft Technology and Management Program**  
One of 30 engineering students selected for cross-disciplinary business minor focused on management in the tech field

**Illinois Mathematics and Science Academy**, GPA: 4.00/4.00 *Aurora, IL, 2013-16*

## Experience

**KPMG LLP**, Technology Advisory Intern | Cognitive Automation *Chicago, IL, June - Aug 2018*  
Collaborated on engagement leveraging machine learning to streamline client HR processes and cut onboarding time  
Automated the training process for a context-based translation engine applicable across a range of business functions  
Developed versatile codebase (NodeJS, Python) prioritizing reusability for future clients, allowing repeat monetization

**Misty Robotics, Formerly Part of Sphero**, Electrical and Computer Engineering Intern *Boulder, CO, May - Aug 2017*  
Built and programmed embedded FPGA boards that shipped in the developer release of the core product, the Misty I robot  
Designed a display format conversion system to reduce costs by enabling the use of a more economical screen  
Collaborated with Chinese manufacturing team to develop new motor control system for the robot's commercial release

**ParkWhiz LLC**, Software Development Intern *Chicago, IL, Nov 2015 - July 2016*  
Implemented an analytics platform on Parkwhiz applications to drive meaningful change by leveraging customer data  
Deployed a data-driven targeted marketing plan that increased site traffic by more than 5 percent over one month

## Leadership

**OTCR Consulting**, Partner | Professional Development *University of Illinois at Urbana-Champaign, 2016-18*  
Led project with Microsoft to develop novel blockchain implementation models as potential services for Microsoft Azure  
Coordinated with client to define project scope and managed project process for 10-member team to build deliverables  
Headed initiative to establish quality standards for deliverables across 10+ projects by producing template slide deck

**ECE Department**, Undergraduate Teaching Assistant | ECE391 *University of Illinois at Urbana-Champaign, 2018*  
Explained operating systems design and low-level device architecture concepts in advanced core class with 250+ students

**IEEE + ECE Pulse**, Marketing and Design Director *University of Illinois at Urbana-Champaign, 2017-18*  
Coordinated design and advertising across print and digital media platforms for 2 week-long event hosting 1000+ students  
Executed brand redesign and created new logo with corresponding design language guidelines to promote conference

**Indian Student Association**, Creative Design Chair *University of Illinois at Urbana-Champaign, 2016-18*  
Organized more than 12 events each year promoting Indian culture and built a social media presence of 3,500+ followers

## Projects

**Operating System Migration Compatibility Testing** *Champaign, IL, 2017*  
Solved compatibility issues in stats software ahead of a planned OS migration for a Fortune 500 pharmaceutical company  
Developed technical resources and tools (Perl) to streamline the statistics manipulation process on Linux and Windows

**Stabilized Reaction Wheel Pendulum** *Champaign, IL, 2017*  
Implemented controller+observer models on a physical RWP, achieving inverted pendulum stability and swing-up control

## Skills

<b>Current Classes</b>	ECE422: Computer Security	CS374: Algorithms	TGMT367: Management of Tech & Innovation
<b>Selected Past Classes</b>	ECE391: Computer Systems Eng.	CS425: Distributed Systems	CS431: Embedded Systems
	ECE486: Control Systems	ECE313: Probability in Engineering	CS225: Data Structures
<b>Languages</b>	C, C++, Java, Javascript, HTML, CSS, Arduino, Python, MATLAB, Assembly Programming (x86, LC3)		
<b>Technical Software</b>	Git, SVN, Eclipse, Verilog, Quartus, Altium, Adobe Photoshop/Illustrator/Lightroom/Premiere, $\text{\LaTeX}$		

## Interests

Cooking

Graphic Design

Photography

Music