

# Kushagra Gupta

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gupta1000.github.io

## Education

**University of Illinois at Urbana-Champaign**, BS. Computer Engineering, Sophomore

*Champaign, IL, 2016-20*

Provost Scholarship - One of 30 students to receive Full Tuition scholarship for academic excellence

GPA: **3.95/4.00**

Chancellor's Scholar, Engineering James Scholar - One of 125 students to participate in honors curriculum

**Hoelt 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

*Chicago, IL, 2018*

Incoming member of the Technology Enablement team, AI<sup>2</sup> division (Automation, Integration, Information)

**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**, Project Manager

*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 Pulse**, Marketing and Design Director

*University of Illinois at Urbana-Champaign, 2017-18*

Coordinated design and advertising across all media platforms for 2 week-long event hosting over a thousand students

Executed a brand redesign and created new logo with corresponding design language guidelines and supporting graphics

**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

Revamped design language outline to establish consistency between outreach using print advertising and digital media

## 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*

Derived mathematical equations describing the RWP and suitable controller+observer models to stabilize the system

Implemented controller on a physical RWP, achieving stability at the inverted loc and swing-up control for the pendulum

## Skills

**Current Classes** | ECE391: Computer Systems Eng. CS425: Distributed Systems ECE313: Probability in Eng.

**Selected Past Classes** | ECE486: Control Systems CS431: Embedded Systems CS225: Data Structures

**Languages** | C, C++, Java, Javascript, HTML, CSS, Arduino, Python, MATLAB, Assembly Programming (x86, LC3)

**Technical Software** | Git, SVN, Eclipse, Atom, Verilog, Quartus, Altium, L<sup>A</sup>T<sub>E</sub>X

**General Software** | Microsoft Office Suite, Adobe Photoshop/Illustrator/Lightroom/Premiere, Inkscape

## Interests

Cooking

| Graphic Design

| Photography

| Music