

Kushagra Gupta

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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, AI² 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 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

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, Verilog, Quartus, Altium, Adobe Photoshop/Illustrator/Lightroom/Premiere, L^AT_EX

Interests

Cooking

Graphic Design

Photography

Music