Kushagra Gupta

kg3@illinois.edu (815) 981 1700 g	upta1000.github.io
Experience ———————————————————————————————————	
KPMG LLP , Technology Advisory Intern Incoming member of the Technology Enablement team, AI ² division (Automation	Chicago, Illinois, 2018 n, Integration, Information)
Misty Robotics, Formerly Part of Sphero, Electrical and Computer Engineering Intern Built, tested, and programmed embedded boards containing Altera FPGAs and A Designed hardware systems including the display format conversion subsystem u Transferred motor control system to the new driving platform and debugged perf	using an I2C configurable DSI to RGB bridge chip
ParkWhiz LLC, Software Development Intern Implemented a back-end analytics platform to monitor customer actions on the F Utilized Go, Ruby, SQL, and Docker to write and deploy the service to ParkWhiz se Determined ways to use this data to make informed business and marketing deci	rvers
Harvard University's Whitesides Research Laboratory, Student Researcher Developed prototypes for pneumatically-actuated walking robots built entirely of Designed and assembled an Arduino-based platform on which to automate roboth Conducted research regarding the applications of electromagnetically-induced of	t actions
Education ————————————————————————————————————	
University of Illinois at Urbana-Champaign, BS. Electrical Engineering, Junior, GPA: 3.9! Chancellor's Scholar, Engineering James Scholar, and recipient of the Provost Scholar, Current Classes: ECE391: Computer Systems Eng. CS425: Distributed System Selected Past Classes: CS225: Data Structures ECE486: Control Systems C	olarship ns ECE313: Probability with Eng. Applications CS431: Embedded Systems
Illinois Mathematics and Science Academy, GPA: 4.0/4.0	Aurora, Illinois, 2013-10
Operating System Migration Compatibility Testing Solved compatibility issues in statistics software ahead of a planned OS migration Developed technical resources and tools (Perl) to streamline the statistics manipu	
Stabilized Reaction Wheel Pendulum Derived mathematical equations describing the RWP and suitable controller+obs Implemented the controller on a physical RWP, achieving stability at the inverted e	
Applications of Electromagnetically-Induced Oscillation in Robotics Invented a method to harness the vibrations of an oscillating magnet in order to a Created and implemented an algorithm to track a magnet's position in 3D space w	
Extra-Curricular Involvement —	
Office for Technical Consulting Resources, Consultant Developed business strategy and technical solutions for companies ranging from	University of Illinois at Urbana-Champaign, 2016-18 local start-ups to Fortune 500 corporations
ECE Pulse , Marketing and Design Director Built Pulse brand and coordinated design and advertising across all platforms for	University of Illinois at Urbana-Champaign, 2017-18 week-long event hosting over a thousand students
Indian Student Association , Creative Design Chair Organized events to promote Indian culture and built a brand with a social media	University of Illinois at Urbana-Champaign, 2016-17 a presence of more than 3,000 followers
Skills —	
Languages and Frameworks Java, C, C++, Javascript, HTML, CSS, Arduino, Python, M Technical Software Git, SVN, Eclipse, Atom, Verilog, Quartus, Altium, IATE General Software Microsoft Office, Adobe Photoshop/Illustrator/Lightron	X
Interests Cooking Graphic Design Photography	Music