Simon Yu

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EDUCATION

University of Illinois Bachelor of Science, Computer Engineering Minor: Computational Science and Engineering	Urbana - Champaign, IL May 2019 <i>GPA: 3.81/4.00</i>
ESEARCH	
 Trajectory Estimation for Geo-Fencing of Small-Size Fixed-Wing UAVs Undergraduate Senior Research & Senior Thesis Contributed to theoretical derivation and hypothesis testing of the geofencing model. Designed software framework that implements the model in simulations and real flights. Revised existing autopilot framework for the implementation of the geofencing systems. Submitted paper to 2019 International Conference on Robotics and Automation (ICRA). 	Urbana - Champaign, IL May 2018 - May 2019
 Helicopter Autopilot Systems Undergraduate Research & Honor Project Resolved servomotor mapping and channel mixing for the helicopter rotary swash plate. Implemented PID controller for position, velocity, attitude and angular rate of the aircraft. Applied path planning and following algorithms for trajectory tracking and 3D waypoints. Acquired knowledge of advanced C / C++ programming and software engineering skills. 	Urbana - Champaign, II Oct 2016 - Dec 2017
XPERIENCE	
 Undergraduate Teaching Assistant of ECE 110 Department of Electrical and Computer Engineering Assisted graduate Teaching Assistants during lab sessions. Conducted lab instructions and demonstrations to improve students' understanding of circuits. Provided answers to questions raised by students regarding lab assignments and lectures. 	Urbana - Champaign, II Aug 2016 - Dec 2010
 Undergraduate Teaching Assistant of CS 101 Department of Computer Science Assisted graduate Teaching Assistants during lab sessions. Conducted lab instructions and activities to improve students' understanding of python. Provided answers to questions raised by students regarding lab assignments and homework. 	Urbana - Champaign, II Feb 2016 - May 2016
 Site Manager of Residential Technology Services Division of University Housing Provided technical solutions to residents of the University Residential Halls. Maintained general operations of residential computer labs across university campus. Supervised status of printers, computers and other general equipment in the computer labs. 	Urbana - Champaign, II Aug 2016 - May 2017
CHIEVEMENT	
Member of HKN and Tau Beta Pi Illinois Alpha Chapter	Apr 201
 Indira Gunda Saladi Engineering Research Scholarship Awarded yearly to one student involving in research projects with independent thinking. 	Oct 201
Bruce C. Mather Memorial ScholarshipAwarded to students dedicated to completing rigorous work of earning an engineering degree.	Sep 201
 Illinois Engineering Achievement Scholarship Awarded to students with a 3.0 GPA and above and very high performances in school work. 	Apr 201
College of Engineering James Scholar Program • Accepted students with a 3.5 GPA and above and participated in honor projects and activities.	Jan 201
 College Dean's List of Academic Excellence Awarded to students with a top 20 percent GPA in the college. 	Jan 2016 - Mar 2018