Jason Dong

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Education

Duke University Durham, NC
BSE, BS Electrical and Computer Engineering and Computer Science   AUG 2018 - MAY 2022 (EXP)

Carroll High School Dayton, OH
GED *GPA: 4.58 WGPA* AUG 2014 - MAY 2018

Work Experience

Air Force Life Cycle Management Center Dayton, OH
Hardware Electrical Engineering Intern JUN 2020 - AUG 2020

- Developed an Arduino-controlled solar tracking device to charge batteries and support existing projects
- Course in Aircraft Avionics at AFLCMC
- Course in RF Technology and Data Processing

Duke University Durham, NC
Teaching Assistant JAN 2020 - MAY 2020

- TA for Engineering 103: Computational Methods in Engineering, an introductory coding class in Python and using computational methods
- Assisted students during weekly lab periods with assignments and data acquisition
- Held weekly office hours to help students with debugging programming assignments and reinforce concepts taught during class
- Graded weekly lab reports and exams

Air Force Research Laboratory - Materials and Manufacturing Directorate Dayton, OH
Student CO-OP MAY 2019 - AUG 2019

- Researched and documented current drone technology to recommend to the Air Force about system hardware, methodology, and other technologies to invest in
- Worked on developing an automated aircraft damage inspection drone to scan military aircraft for damages due to normal operations, scratching, and corrosion
- Experience working in AFRL's Materials Test & Evaluation lab, and worked on lab projects relevant to the Air Force mission
- Experience working with Dynamic Mechanical Analysis (DMA) machine, Fourier-transform Infrared Spectroscopy (FTIR) Machine, and ARAMIS image analysis software

Air Force Research Laboratory - 711th Human Performance Wing Dayton, OH
Wright Scholar Intern |MAY 2017 - AUG 2017| - |MAY 2018 - AUG 2018|

- Worked in areas of Microbiology and Synthetic biology as a research assistant under Dr. Mike Goodson
- Various lab protocols including PCR, mini-prep, gel electrophoresis, nano-drop, autoclaving, DNA bacterial transformations, working with cell cultures and a myriad of E. coli strains (more information upon request)
- Lab organization, assisting mentors with protocols, and extra help with their day-to-day projects.
- Working on a group synthetic biology project and member of the AFRL-Carroll HS iGem (International Genetically Engineered Machine) Team (more information upon request)
- Website creation, and basic HTML and CSS coding to display research results
- Author for various pieces of published literature on school papers and non-profit organizations interested in the iGEM Project (more information upon request)

Skills

Programming Languages:	Java - Working proficiency, Python - Working proficiency, Arduino - C/C++ Knowledge
Website Design:	Ability to work with raw HTML and CSS
3D Printing:	CAD Design, Maintaining and operating 3D Printers
Laser Cutting:	Capable of operating laser cutting machines for wood or acryllic
Languages:	Mandarin Chinese - Fluent in speech, comprehension, writing, Spanish - Limited efficiency
Video Production:	Experience with Final Cut Pro, iMovie, and Thumbnail Editing

Projects

Please visit my website at thejasondong.com for my past and ongoing projects.

Awards

Academic All-Ohio OHSAA
Competed at OHSAA D2 State Cross Country Meet (2017) and OHSAA D1 Indoor Track and Field
Meet (2018) while maintaining high GP.A 2017, 2018

Captain's Award Carroll High School
2017 Cross Country Captain, 2017 Indoor Track and Field Captain, 2018 Outdoor Track and Field
Captain 2018

ISEF Alternate Montgomery County District Science Fair
International Space and Engineering Fair alternate at Dayton Montgomery District Science Fair (2016).
Superior ratings at school, county, district, state science fairs (2016, 2017) 2017