

Saejoon Park

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EDUCATION

Cornell University Ithaca, New York	May 2028
Bachelor of Science in Electrical and Computer Engineering	
Lake Braddock Secondary School Fairfax, VA	June 2024
High School Diploma	
W GPA: 4.573/5.00 UW GPA: 3.99/4.00	

SKILLS

Programming Languages: Python, Java, Arduino IDE
Operating Systems: Windows 10/11, Raspberry Pi OS, MacOS 14
Software: Fusion360, Blender, Microsoft Office
Languages: Korean, fluent

PROJECTS

Head Movement Tracking Mouse Fairfax, VA	August 2024
<ul style="list-style-type: none">Assembled using Arduino microcontroller components, device allows for hands-free mouse trackingComputer Vision allows for hand gesture tracking at 30 fpsProgrammed using Arduino IDE and Python	
4K Raspberry Pi Mirrorless Camera Fairfax, VA	July 2024
<ul style="list-style-type: none">Developed 12.1MP handheld and wireless photo and video capturing deviceImplemented a 3D-printed chassisProgrammed with Python in Raspberry Pi OS	
Bio-Thermal Electric Generator Powered Mouse Fairfax, VA	August 2023
<ul style="list-style-type: none">Pioneered Patent Pending hand thermal energy powered computer mouseImplemented TEG Modules and transformers to create a circuit converting 20mV device to 3.3VDevelopment toward alternate LED power source	
3D Printed Hotswap Mouse Business Fairfax, VA	October 2023
<ul style="list-style-type: none">Reached over 12,000 Etsy viewsDesigned environmentally friendly/modular framework	
Python Martingale Simulator Fairfax, VA	August 2024
<ul style="list-style-type: none">Calculated simulated permutations of gambling strategy through a user-interactive Python program	

WORK EXPERIENCE

Mathematics TA Internship Fairfax, VA	May 2024
<ul style="list-style-type: none">Mentored high school mathematics students through the integration of modern interactive teaching techniques	

ACTIVITIES

Chemistry Olympiad (Co-Captain 2023) Fairfax, VA	2022 - 2024
<ul style="list-style-type: none">Mentored USNCO competitors through interaction instruction and comprehensive practice problems	
STEM Club (Vice President 2023) Fairfax, VA	2020 - 2024
<ul style="list-style-type: none">Devised comprehensive presentations and interactive experiments for aspiring STEM enthusiast	

HONORS

Provisional Patent for TEG Hot Swap Computer Mouse	Fall 2023
High School PSA Video Competition Winner	Spring 2021