ALEXANDER HOWDEN

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R E V E L A N T   E X P E R I E N C E

Spark!Lab – Morris Museum | Morristown, NJ
Spark!Lab Ambassador   July 2022 – Present

• Welcome visitors into Spark!Lab: an inclusive, interactive space for young minds to explore the invention process
• Implement original enhancements to activities stations to cater to a wider range of maturity levels
• Model inquiry-based thinking and creative problem solving for the youngest generation of STEM enthusiasts

Boy Scouts Troop 25 | Madison, NJ
Eagle Scout   March 2022 - Present

• Mentor younger scouts through live demonstrations of first-aid procedures and survival tactics like fire-building
• Implement the BSA Educate, Demonstrate, Guide, and Enable (EDGE) teaching method in presentations on orienteering and leadership development
• Restore native species floating islands in Spring Garden Lake, NJ to support the role of the plant ecosystem in absorbing toxic runoff to preserve aquatic life

Visionary & Project Manager of STEM Program   Jan 2022 - Present

• Leveraged innovative thinking to plan and launch a new program geared toward younger Troop 25 scouts
• Communicate with Scoutmaster and board members to secure funding and approval for STEM activities
• Host stargazing, model rocket launches, coding competitions, and engineering challenges to foster mechanical and team-based skill development among younger scouts

H A C K A T H O N S

M.I.T. Blueprint | Cambridge, MA   Feb 2023
Selected Programmer

• Collaborated in a cross-functional team to ideate and create Mozzarella, a web interface that provides personalized book, movie, and music recommendations based on a keyword supplied by the user
• Combined Python, CSS, Java Script, and mentor feedback to deliver the best user experience possible

M.I.T. iQuHACK (interdisciplinary Quantum HACKathon) | Cambridge, MA
Recipient of Social Impact Award   Jan 2023

• Leveraged technical acumen alongside a team of 5 to develop code and implement quantum algorithms to achieve cost-effective solutions for quantum calculation challenges
• Awarded Social Impact Award for the team's swift, voluntary response to assist competing teams in overcoming roadblocks
• Placed 6th out of dozens of teams and hundreds of hackers

E D U C A T I O N

HANOVER PARK HIGH SCHOOL | East Hanover, NJ   Class of 2024
National Honors Society
National Merit Scholarship Candidate
AP Computer Science A – 1 of 369 Global Perfect Scorers
Mu Alpha Theta – National Math Honors Society
STEM-Robotics Club, Vice President & Programmer
Asian Culture Club, Vice President
Varsity Cross Country & Tennis