

Alexander King

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Education:

- Georgia Institute of Technology – Atlanta, GA August 2022 – Present
 - GPA 4.0, Mechanical Engineering Major with Robotics Concentration
- Clear Lake High School – Houston, TX August 2018 – May 2022
 - GPA 5.84/6, Summa Cum Laude, National Merit Finalist

Work Experience:

- Robotics Academy Intern | NASA JSC June 2022 – August 2022
 - 25 hours per week
 - Worked with a team of bomb technicians, interns, and professional engineers during a one-week workshop to develop a network of remotely controlled robots that were able to communicate with each other to investigate a potential bomb threat
 - Serviced wheel modules on the Space Exploration Vehicle in preparation for upcoming testing
 - Helped assemble a single-wheel test module for a prototype lunar rover

Other Experience:

- Team Leader | RoboJackets (Georgia Tech's competitive robotics teams)
 - Led team and created CAD (Inventor) for a three-pound BattleBot
- Subsystem Lead | Robonauts (FIRST robotics team)
 - Created subsystem-level CAD (Creo) for 3 years
 - Prototyped and rapidly iterated on designs over a 6-week period
 - Made eliminations at the world championship twice and won 7 events
- Team Leader | Clear Lake HS VEX robotics
 - Created overall robot design and CAD (Creo)
 - Led team to win the 2022 UIL 6A Texas State Championship and make eliminations at the world championship twice
- Senior Patrol Leader & Assistant Senior Patrol Leader | Boy Scouts
 - Eagle Scout
 - Led troop and planned meetings for 3 months during the COVID pandemic

Skills:

- CAD: SolidWorks, Inventor, Creo Parametric
- Machining: manual mill, lathe, 3D printer, drill press, bandsaw
- Programming: MATLAB, JavaScript
- Problem solving
- Leadership
- Teamwork

Volunteering:

- Robotics-related volunteering
 - 204 hours; helped run various VEX + VEX IQ events and mentored two different intermediate school teams
- Eagle Scout Project
 - 38 hours; planned project, communicated with beneficiary, and lead team to build planting tables, a 3-sided hopper for soil, and roman shades