Nikita Lukhanin

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EDUCATION

University of Illinois at Urbana-Champaign May 2023
Bachelors of Science in Mechanical Engineering, Chemistry Minor 4.00/4.00

Current Classwork: Fluid Mechanics, Thermodynamics, Circuits, Statistics, & Design I
Extracurriculars: Formula SAE, ISS, & iRobotics
Societies: American Society of Mechanical Engineers & American Chemical Society

College of DuPage May 2021
Associates in Engineering, Chemistry Minor 3.94/4.00

Relevant Classwork: Differential Equations, Physics I-III, Organic Chemistry I-II, Mechanics of Materials, & Dynamics
Extracurriculars: Robotics Team and Engineering & Technology Club

EXPERIENCE

Automation Engineering Intern June 2021 – August 2021
SGS IBR Laboratories Ann Arbor, Michigan

- Conceived and built debris simulant mixing machine up to industry standards
- Designed an enclosed solenoid timing circuit for oil filter testing stands
- Automated cleanroom vacuum testing benefiting trial accuracies and repeatability
- Modeled high pressure air test stand accelerating current and future construction

Robotics Team President May 2020 – June 2021
College of Dupage Glen Ellyn, Illinois

- Coordinated the design, software, and assembly of the rover for the NASA Lunabotics
- Established 3 business relationships for part fabrication while machine shops were closed
- Developed and led a virtually controllable sumo-bot outreach event for high-school students
- Conceptualized and manufactured 6-foot robot arm with a differential manipulator

Engineering & Technology Club Vice President November 2019 – May 2021
College of Dupage Glen Ellyn, Illinois

- Organized and ran Chicago inner-city outreach events to connect students with engineering
- Presented CoD's annual engineering olympics competition to 250+ high-school students
- Managed $30,000 towards club expenses, funding, and donations for robotics and outreach
- Directed class projects and discussions within engineering seminars in groups of 20+

TECHNICAL SKILLS

Languages: C++, Python, & G-Code
Applications: Solidworks, MATLAB, Fusion 360, Inventor, CREO, MS Office, & MS Excel
Hardware: Arduino, ESP, Jetson, Stepper & BLDC motor controllers, & Solenoid timing circuits