



Kevin Lee

B.S. in Engineering Physics; Astronomy and Astrophysics (2021)

Harmonized Cryogenics Technology, Remote

Describe your overall duties/responsibilities as a Co-Founder/Research and Development Engineer:

I work at Harmonized Cryogenics Technology, a quantum computer equipment startup, with a friend at NASA JPL. Previously, I worked at Northrop Grumman and NASA JPL on the topics of space, defense, and earth science missions, and plan to return to the aerospace company after major milestones are done here. My current responsibilities include various tasks such as overseeing the products to meet the requirements, investigating the mechanical and electrical design in the systems, and assisting the company's managing plans and policies.

Explain the skills/abilities that are required for being successful in your role:

Learning from the multidisciplinary extracurricular activities and classes has contributed to my success in my current role. Among all, the ability to do programming and the analytical skills have helped me most in my roles – during my first internship at NASA JPL, I wrote an entire software in MATLAB and Python to assist scientists in verifying and validating satellites. After my software engineering work at Northrop Grumman, I took on responsibilities including and not limited to project management, systems engineering,

mechanical design with SolidWorks, information technology, and physical simulation in the startup. Having a broad experience and keeping learning new things from the work helps me seek solutions to the different projects and teams I work with.

What advice would you give to students who are considering majoring in Engineering Physics?

My advice to students who are considering majoring in engineering physics is to have good time management and take opportunities to learn new skills through group projects, which you can apply to an internship, job, or research later. Although it can sometimes be challenging to find a work-life balance to involve in so many things, Engineering Physics is a rewarding choice for students who want to learn how to incorporate the science and engineering disciplines together to meet project requirements. Always keep learning new things from project teams and do not hesitate to work on the stuff you are most interested in, even studying by yourself sometimes when you cannot find an expert in the field; this is the most important thing I learned through different projects and classes.

