

Vance Joseph Allen

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www.vancejallen.com

- Objective:** Seeking a full time position related to Aerospace Engineering
- Education:** **Bachelor of Science, Mechanical Engineering** *May 2023*
Concentration in Aerospace Engineering, Minor in Art
Rose-Hulman Institute of Technology, Terre Haute, IN
- Related Courses:** Aircraft Design, Internal Combustion Engines, Celestial Mechanics, Theoretical Aerodynamics, Propulsion Systems
- Skills:**
- Software**
- Autodesk Fusion 360, Solidworks (CAD and FEA), Simplify 3D, and Blender
 - Maple, Python, Microsoft Office, and Matlab
- Language**
- Introductory Japanese
- Hands-on Processes**
- Table saws, Bandsaws, Lathes, Milling Machines, and Welding
 - 3D Printing and Soldering
 - Various casting and molding processes for various materials
- Engineering Experience:**
- Remote Controlled Aircraft and Quadcopters: Independent Work** *(2018 – Present)*
- Developed skill piloting fixed wing and multirotor unmanned aerial systems since 2018
 - Conducted thorough research on the materials, components, and assembly techniques needed to build, repair and pilot the aircraft even after extensive damage
 - Managed the lithium batteries to maintain performance and avoid damage to the aircraft or myself
- Capstone Design** *(2022 – Present)*
- Working with Neoteric hovercraft to fix issues with the cooling system for their hovercraft engines
 - Evaluating design options using physical data and computer simulations
- Engineering Design Studio Project: Accessibility Device** *(Winter 2019 – 2020)*
- Contracted by a company under a non-disclosure agreement
 - Designed an arm that raked laundry closer using Solidworks CAD 3D part design
 - Prototyped and manufactured the arm using additive manufacturing processes and milling
 - Managed my team as the project lead by setting deadlines and goals to keep the project on track
- Private Pilot License** *(2022-Present)*
- In progress on my Private Pilot License
 - Gaining a further understanding of flight
- Experience:**
- Audio Visual Team** *(2020 – Present)*
- Set up, operate, and tear down of audio, visual, and lighting equipment for college events
- Student Activities** *(2021 – Present)*
- Set up for events in the Rose-Hulman Student Union and tended the Student Activities office
- Iron Pig Expediter** *(Summer 2021 & 2022)*
- Plated orders for the servers and delivered food to tables when servers were busy
 - Took phone orders and assembled to-go orders
 - Troubleshooted issues with the television and sound
- Delta Sigma Phi Fraternity – Treasurer, Historian and Vice President**
- **Vice President** *(2022 – Present)*
 - Ran weekly executive board meetings, enforced parliamentary procedure, and facilitated discussion
 - Worked with chapter officers to ensure the completion of their duties and offered any help
 - **Treasurer** *(2021 – 2022)*
 - Communicated with fellow active members about budgets and reimbursements
 - Developed a budget in conjunction with the Vice President to ensure that each position received the budget they needed while keeping in mind the fraternity's budget as a whole and where the chapter wanted to prioritize funding
 - Held a position on the executive board, made decisions about the future of the chapter in conjunction with the other board members
 - **Historian** *(2021 – 2022)*
 - Updated the chapter's documents that links the chapter to past members
- Volleyball Club – Treasurer** *(2022 – Present)*
- Managed the budget of the volleyball club, working with the president to purchase new equipment and choose exercises and drills