Ori Algave

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EDUCATION

University of Florida, **Herbert Wertheim College of Engineering** **August 2024-Present**
- **Seeking a Bachelor of Science with a Major in Aerospace Engineering** Gainesville, Florida
- **GPA:** 3.92

Relevant Coursework: Introduction to Aerospace Engineering, Physics 1, Calculus 2, Astrophysics 2, Chemistry 1, Solidworks
Skills: Solid Works Certified, OnShape, PixInsight, ASI AIR, DeepSkyStacker, AstroImageJ, Photoshop, CorelDRAW, Excel, Microsoft Word, PowerPoint, CapCut, Canvas, Notion, Public Speaking, Hebrew Language, Research, Astrophotography
Honors: JFounders Second Place, AP Scholar, Nova High Law and Public Policy Diploma, AICE Cambridge Diploma, AP Capstone Diploma

Broward College **June 2021-June 2024**
- **Associate of Arts Degree (AA)** Davie, Florida

Nova High School **August 2020-June 2024**
- **GPA:** 5.53 Davie, Florida

WORK EXPERIENCE

Founder **December 2022-January 2025**
Happy Feed Fort Lauderdale, Florida
- Founded Happy Feed, a self-wellness motivational startup that sends out daily affirmations to teens to curb depression, Happy Feed integrates Textedly, a messaging service, to schedule and send mass massages, incorporate links, and promote positivity
- Won second place and a $2,500 grant to fund Happy Feed through the JFounders “Shark Tank" style pitch competition; JFounders is an innovative entrepreneurship program that integrates entrepreneurial principles and Jewish Bible teachings

Warehouse Associate **June 2022-August 2022**
Premier Dead Sea USA Fort Lauderdale, Florida
- Managed a 30,000 square foot inventory by efficiently stocking products, labeling items, and packaging shipments with precision; utilized mobile scanners and an inventory database to pick and pack orders, ensuring accuracy
- Implemented an organized aisle-by-aisle inventory system, resulting in 50% improved workflow and efficiency: operated machinery, including a stretch wrap machine and forklift, to facilitate smooth warehouse operations

EXTRACURRICULAR ACTIVIES

President **August 2023-June 2024**
Science National Honor Society Davie, Florida
- Orchestrate engaging biweekly science experiments, such as bridge building, bottle rockets, and the Baking Soda and Vinegar Chemical Volcano; arrange field trips, such as visits to the Frost Museum in Miami, for a group of 70 members
- Mentored and trained members in preparation for the FAU Science Olympiad (a written, oral, and experimental science competition) by offering lectures, strategic guidance, and support

Programming and Education Specialist, Hollywood Chapter **June 2023-June 2024**
National Conference of Synagogue Youth (NCSY) Hollywood, Florida
- Develop and craft engaging Judaic educational content and lessons, covering topics such as current events, holidays, and weekly Bible portions, to enrich the learning experiences of more than 100 teenagers
- Organize regional events, including ice skating and the Rosh Hashanah party, fostering a sense of community and cultural celebration; actively recruit members by conducting informational sessions and utilizing outreach methods, such as text and email

PROJECTS

Astrophotography **July 2022- Present**
- Captured and processed high-resolution images of galaxies, nebulae, and star clusters using a sophisticated astrophotography rig composed of high-end components such as tracking mounts, cooled monochrome cameras, and narrowband filters.
- Operated and calibrated complex imaging systems utilizing software’s like ASI AIR, PixInsight, and DeepSkyStacker which requires precise alignment, polar calibration, and multi-night exposure stacking.
- Founded and grew an Instagram platform (@astroori) to showcase curated astrophotography work and explain the science behind each target, reaching and engaging an audience of 1500 followers.

Exoplanetary Research **August 2023- May 2024**
- Gathered and analyzed transit light curve data for exoplanet TOI-3819 b using a mid-level telescope, advanced imaging software (ASI AIR, AstroImageJ), and calibration techniques to calculate planetary radius and other critical values.
- Compared Results to NASA’s published data, applying statistical methods (chi-squared test, degrees of freedom, and percent error) to assess accuracy and demonstrate the potential – and limitations – of amateur observational astronomy in the detection of exoplanets.

OTHER INVOLVEMENT:

College Organizations: Mentorship Program/ Programming Director of Chabad UF, Sinai Scholars Society, Hillel UF, IAC Mishelanu Fellow
Outside of School: JFounders, Plantation Intermural Athletics League, The Jerusalem Journey Southern Alumni Program, The Judah Fellowship