

# ADRIEL VENTURA

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## PROFESSIONAL SUMMARY

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Mechanical Engineering undergraduate with a strong foundation in CAD design (Siemens NX, SOLIDWORKS), GD&T, and additive manufacturing. Incoming Mechanical Engineering Co-op at Stellant Systems, applying structural analysis and thermal management concepts. Proven leadership experience managing executive boards, driving STEM engagement, and actively advocating for minority representation in engineering.

## EDUCATION

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**Bachelor of Science in Mechanical Engineering** Expected Dec 2027  
Hofstra University, Hempstead, NY

**Honors:** Rabinowitz Honors College, Provost Scholar

**Relevant Coursework:** Thermodynamics, Fluid Mechanics, Engineering Materials, Computer-Aided Design.

## TECHNICAL SKILLS

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<b>Core Competencies</b>	Siemens NX, SOLIDWORKS, AutoCAD, GD&T (ASME Y14.5), Lean Six Sigma
<b>Analysis &amp; Sim</b>	Finite Element Analysis (FEA), Thermal Simulation, MATLAB
<b>Manufacturing</b>	Additive Mfg (FDM/SLA), 3D Printer Maintenance, Assembly Repair
<b>Software Tools</b>	Fusion 360, MS Office Suite

## ENGINEERING PROJECTS

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**CPU Heat Sink Thermal Design** Spring 2026  
*Academic Portfolio Project*

- Designed a 15-fin Al-6061 plate-fin heat sink to dissipate a 100 W thermal load, maintaining CPU temperature below 70°C.
- Optimized geometry using MATLAB parametric analysis and validated heat transfer performance via Fusion 360 simulations.
- Produced an ASME-compliant SolidWorks drawing package, complete with DFMA justifications and a validation BOM.

## LEADERSHIP & EXPERIENCE

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**Stellant Systems** Expected Summer/Fall 2026  
*Mechanical Engineering Intern / Co-op*

- Secure industry placement to assist senior engineers with thermal management and vibration analysis.
- Apply CAD principles to validate mechanical assemblies for aerospace and defense applications.

**Hofstra University CSTEP** Sep 2025 - Present  
*Co-President, Community Board*

- Direct a 5-person executive board to execute professional development programming for 50+ engineering students.
- Increase workshop attendance by 40% through data-driven outreach strategies and targeted recruitment.

**Society of Hispanic Professional Engineers (SHPE)** May 2026 - Present  
*Chapter Revamp Lead*

- Collaborate with engineering faculty and student peers to reactivate the dormant university SHPE chapter.
- Establish a sustainable campus pipeline to provide resources and mentorship for minority STEM students.

**ASME (American Society of Mechanical Engineers)** Aug 2024 - Present  
*Social Media Coordinator & Former Recruitment Chair*

- Connect 20+ students with industry mentors by spearheading recruitment initiatives and technical networking events.
- Manage external communications to share industry insights and coordinate technical workshops.