

UConn

AIAA Student Branch



CORPORATE SPONSORSHIP PACKET

FY 2025

American Institute of
Aeronautics and Astronautics

University of Connecticut

PRESIDENT'S LETTER

Dear potential sponsors, professionals, and alumni,

As president of the UConn AIAA Branch, I am thrilled to invite you to support UCONN AIAA. Since joining, I have experienced the passion and growing expertise of our members in aviation and spacecraft engineering. The supportive community has empowered me and countless others to grow both academically and professionally.

Our organization is a main proponent in cultivating a vibrant aerospace culture at UCONN. Our social outreach events (such as water rocket building with the Girl Scouts) and our three advanced engineering projects have successfully engaged students across UConn. Our industry/alumni connections, guest lectures, and networking opportunities have provided tremendous guidance and possibilities for our members, allowing them to excel in their future careers.

I am proud to share that our membership has grown steadily in the past year, and we expect this upward trajectory to continue. However, our success would not be possible without the generous support of organizations like yours. By partnering with us, you will contribute to the development of the next generation of aerospace talent.

We offer various sponsorship levels and opportunities. Your support would provide invaluable resources for our organization and initiatives, while also offering increased brand visibility, recruitment opportunities, and the chance to engage with our driven members.

This sponsorship packet is designed to help you select how you would like to be involved with our activities. Thank you, and I encourage you to review our packet and reach out to us with questions. My leadership team and I look forward to hearing from you.

Ad Astra,

Adam Florkiewicz

FY25 President, UCONN AIAA

ABOUT OUR MEMBERS

100% of our graduated members have secured industry positions or are pursuing higher education

96% of our members are actively seeking an internship

60% of our members have completed successful internships

30% of our members are regular volunteers for STEM events

25% of our members are working in undergraduate research

OUR MEMBERS GO ON TO WORK AT

Lockheed Martin
Pratt & Whitney
SpaceX
Draper
OTIS
Schaeffler
Electric Boat
Air Force

ENGINEERING MAJORS IN AIAA

Mechanical Engineering
Electrical Engineering
Biomedical Engineering
Computer Science
Robotics Engineering



UConn

AIAA Student Branch



PROPULSIVE LANDING

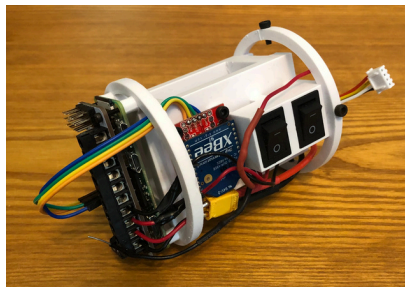
One of AIAA's project teams, Propulsive Landing (PL) aims to become the first collegiate team to launch and soft-land a model rocket using retro-propulsion. PL has spent the past four years developing the hardware, software, and electronics needed to make this goal a reality. When PL was born in September of 2020, our first major objective was to build a rocket that could successfully rotate itself into a vertical orientation. It took two years and multiple redesigns, but in March 2022, we performed our first fully successful stability test.



Near-perfect drop test. March 2023

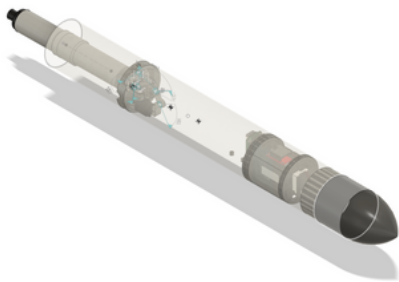


Final touches on rocket assembly prior to testing



In-body flight computer assembly

Next, we transitioned to in-flight drop tests. Our most successful drop test occurred in April 2023 when our rocket stayed within a few degrees of vertical the entire flight and made it to the ground undamaged. As of fall 2023, we have started building a new rocket, Prometheus, capable of both launching and landing. Our primary upcoming goal is to launch and soft-land Prometheus in a single flight. To prepare for this, we have an ambitious testing schedule for the fall of 2024 with several launch and land tests. If we achieve that goal in the fall, we will shift our focus to making its landings as soft and accurate as possible for the rest of the year. We eventually aim to build the world's most accurate propulsive landing model rocket.



To the right: PL's first successful launch test, December 2023

To the left: our recently-redesigned rocket assembly, complete with thrust vector control module



How can you help?

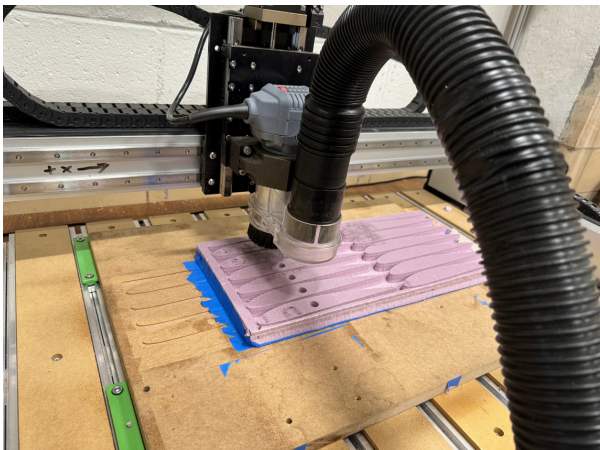
Any monetary donations will directly support PL's manufacturing process by allowing us to acquire higher-quality materials (ie. carbon fiber) capable of withstanding rigorous testing. The more tests the team performs, the more data we collect, which allows us to more rapidly modify and improve our launch-and-land performance in the near future.

DESIGN, BUILD, FLY

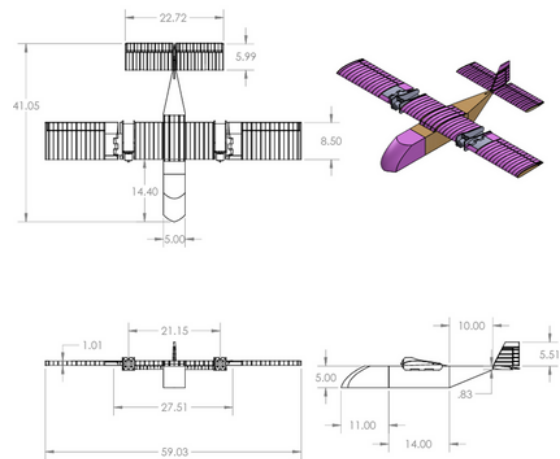
UCONN Design, Build, Fly began three years ago as a way for students to develop skills and knowledge of aircraft design by building a competition RC plane. We started off as a small group of five students getting our proposal rejected to getting accepted to the competition this past year and having an unstable, but flyable plane. Through this trial and error, our team has gained experience in FEA, CFD, CAD, and various manufacturing processes. Currently, the DBF team boasts 15 core members and aims to achieve top 10 performance next year. In the past, we have made our wings out of both foam and balsa. Despite optimizing manufacturing such as CNC runtime, using foam in the wing was proved to be inefficient.



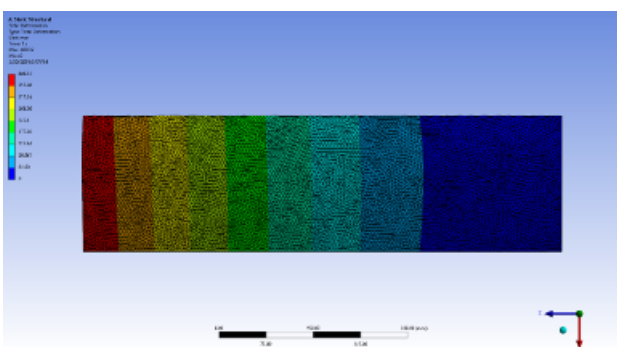
UCONN at the 2024 DBF Competition



Optimized Foam CNC Process using Tape and Spray Adhesive



Engineering Drawings of Our Plane, Jeb 2.0



FEA Analysis showing Total Deformation of Wing During Flight

This coming year, we hope to explore sticking with balsa ribs and mono-kote for the main wings, using R&D composites for structural integrity, and optimizing our stability characteristics through a larger horizontal stabilizer. We are going to accomplish this through an iterative design process, by building a plane with foam board, then balsa, and finally the complete product with composites. Our branch will also be organizing a fly-off (before the competition) with surrounding schools: Wentworth Institute of Technology and UMass.

How can you help?

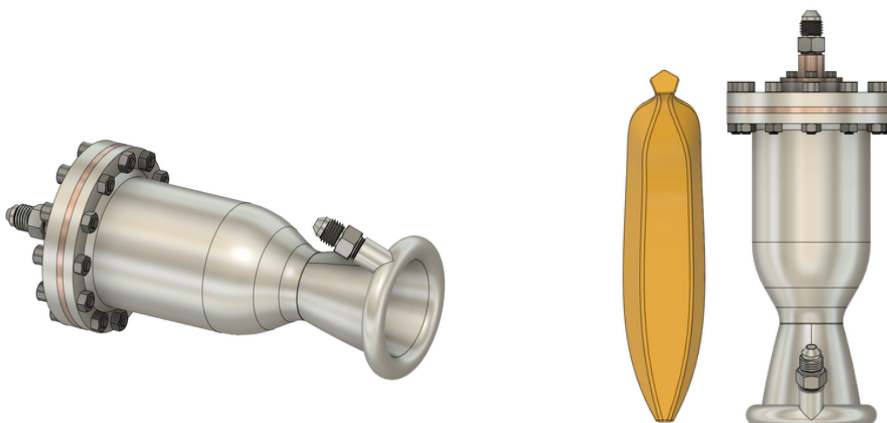
We are looking for partners to help support our DBF project. Any monetary donations will help to support acquiring quality materials & equipment for the RC plane, and any transportation and living costs associated with the DBF competition.

LIQUID PROPULSION

The Liquid Propulsion Team is a new AIAA sub-team created just over a year ago to develop liquid rocket engines and flight vehicles. The team currently has a strong core of around 10 members, and is looking to grow in the coming semester. The team successfully developed, built, and hot-fired an augmented spark igniter in its first year, along with a complete test stand and feed system. Our current goal for this year is to develop and test-fire a 250-pound-force, regeneratively cooled, liquid rocket engine. The engine will use ethanol or IPA as the fuel and nitrous oxide as the oxidizer. The main combustion chamber will be 3D printed in an aluminum alloy, as this will allow us to create the complex internal geometry required for the cooling channels. The injector assembly will be machined in-house by team members. The team will also design and construct a new test stand and feed system for the rocket engine. Our long-term vision is to integrate the Liquid Propulsion and Propulsive Landing teams to create a vertical-takeoff-vertical-landing hopper vehicle, powered by our liquid rocket engine.



The team with our gaseous oxygen/isopropyl alcohol copper torch igniter from last semester



Early CAD models for our upcoming 250-pound-force rocket engine, including a banana for scale ;)

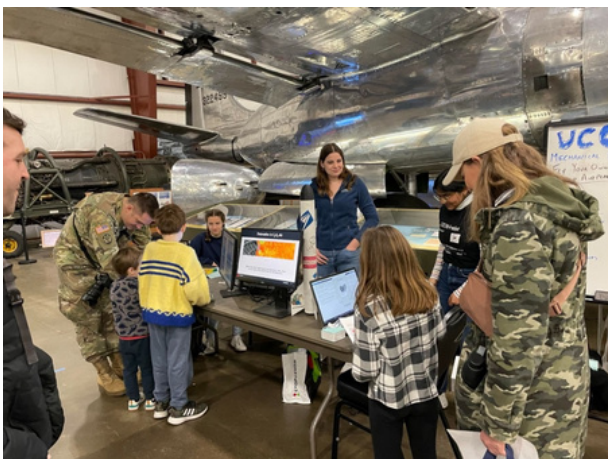
Want YOUR logo on a rocket engine?

We are looking for strategic partnerships as we move forward with our rocket engine design. In addition to monetary contributions, we are looking for partners to 3D print metal parts for us, provide valves and feed systems components, and other hardware necessities.

OUTREACH/ENGAGEMENT

JWMS Middle School

At the UCONN AIAA Branch, we are dedicated to inspiring the next generation through impactful outreach programs. Our collaboration with John Wallace Middle School showcases this commitment. We organized an interactive presentation about a day in the life of a college engineering student, and hosted a paper airplane contest, guiding students through aerodynamic principles as they designed and competed.



Women Take Flight!

We collaborated with UConn Society of Women Engineers to table at the New England Air Museum (NEAM)'s Women Take Flight event! At NEAM, the group presented an interactive simulation that allowed visitors to select parameter values and take home stickers of their own Lorenz attractor. AIAA taught visitors the principles of flight through paper airplane design, walking them through different types of designs and models.

Girl Scouts Water Rockets

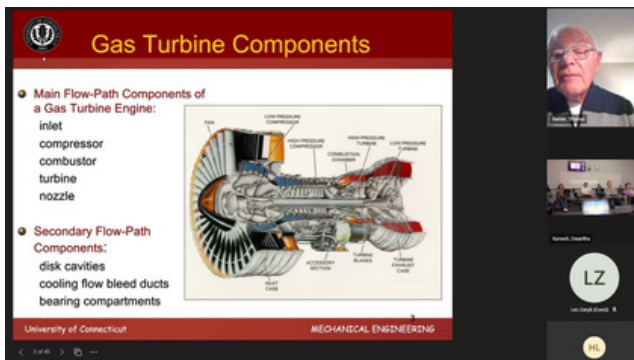
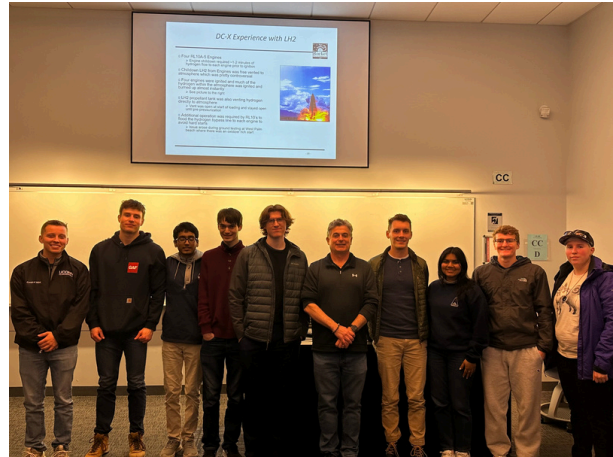
We partnered with the local Girl Scouts troop, sharing our passion for aerospace through interactive activities. Our members conducted a presentation about flight and space exploration. Afterwards, we organized a hands-on water bottle rocket build and launch event, where the Girl Scouts constructed their own rockets and launched them.



OUTREACH/ENGAGEMENT

AIAA Mentorship Program

Our mentorship program bridges the gap between academia and industry by pairing our members with experienced professionals in the aerospace field. Mentors share their expertise, offer career advice, give resume feedback, and provide a firsthand perspective on real-world challenges and opportunities within aerospace.



Professional Presentations

We regularly host professors and industry leaders to share their expertise with our members. Through thought-provoking lectures and interactive discussions, our members gain a deeper understanding of cutting-edge research and emerging technologies (such as CFD for detonations and rocket design). These events facilitate networking opportunities allowing our members to forge connections with potential mentors and future colleagues.

Resume Workshops

Our experienced members, many of whom have secured coveted internships and job opportunities, take the initiative to guide fellow students through the process of refining their resumes, preparing for career fairs, and succeeding in job interviews. Through these resume workshops, they share ways to highlight relevant skills and experiences (i.e. creating a personal website, giving a great elevator pitch to potential employers, etc.).



How can you help?

Our branch volunteers to present at and support all sorts of events on campus, in addition to the ones already mentioned. In the past, we have volunteered at UConn First Robotics, Engineering Open House, UConn Bound Day, UConn Engineering Career Fair, and many more. Any monetary donations will help to support activity supplies for participants, snacks and lunch for events, and any transportation costs associated with the events.

SPONSORSHIP BENEFITS

Sponsorships include designated benefits as well as those of the tiers below. Any donations of parts, services, and discounts are greatly appreciated! Thank you for investing in the next generation of engineers!



Platinum Sponsor

\$10,000+

- Recognition with plaque

Gold Sponsor

\$2,000+

- Company Logo on all planes/rockets during recorded tests and competition

Silver Sponsor

\$1,000+

- Email announcements to AIAA section members about job openings
- Logo on UCONN AIAA website with link to company website
- Logo on UCONN AIAA poster/PowerPoint presentations

Bronze Sponsor

<\$1,000

- UCONN AIAA Resume Book (a searchable PDF compilation of UCONN AIAA member resumes)
- Recognition at events sponsored (social media)

The UCONN Chapter of the American Institute of Astronautics & Aeronautics expresses our sincere gratitude for your generous donation to our organization. Your support will have a significant impact on our activities and pursuits. Outlined on the next few pages are the logistics of donating. Regardless of the monetary amount and method of sponsorship your company is executing, please fill out the Monetary Sponsorship Commitment Form located on page 11; W-9 forms can be found on page 12 and 13

SPONSORSHIP INSTRUCTIONS

Donations by Check:

Payable to : University of Connecticut Foundation, 2390 Alumni Drive, U-3206,
Storrs, CT, 06269

Check must state that money is for 21904 SOF - American Institute of
Aeronautics and Astronautics

Online Donations:

Available at [https://www.foundation.uconn.edu/give-now/search/?
fund_keywords=student](https://www.foundation.uconn.edu/give-now/search/?fund_keywords=student)

Make sure to select American Institute of Aeronautics and Astronautics from
the Choose Sub-selection dropdown menu.

Select yellow + button to add gift to cart and continue donation

SEARCH RESULTS FOR: STUDENT ORG

student org

Funds **+**

STUDENT ALUMNI ASSOCIATION

Gifts to the Student Alumni Association fund provide support for activities hosted by the Student Alumni Association as well as overall support for the Student Alumni Associations activities.

Funds **+**

STUDENT ORGANIZATIONS FUND

American Institute of Aeronautics and Astronautics

Gifts to the Student Organizations Fund will support the activities of the student organization and improve the quality of student life.

SELECTED GIFTS 1

Gift #1 **Remove**

Scholarships & Campus Initiatives

STUDENT ORGANIZATIONS FUND

Subselection: American Institute of Aeronautics and Astronautics (AIAA)

NEXT STEP →

Choose Amount and complete prompted steps to finalize donation

SPONSORSHIP COMMITMENT FORM

Date:

Company Information

Company _____

Address _____

City _____ State _____ Zip Code _____

Primary Contact Information

Name _____

Title _____

Email _____

Sponsorship

Amount \$ _____

Tier(Optional) _____

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. The University of Connecticut Foundation, Inc.	
2 Business name/disregarded entity name, if different from above	
3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) <u>1</u> Exemption from FATCA reporting code (if any) <u>A</u> <small>(Applies to accounts maintained outside the U.S.)</small>
<input type="checkbox"/> Individual/sole proprietor or single-member LLC	<input type="checkbox"/> C Corporation
<input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____	<input type="checkbox"/> S Corporation
<input checked="" type="checkbox"/> Other (see instructions) ▶ <u>501(c)(3)</u>	<input type="checkbox"/> Partnership
<input type="checkbox"/> Trust/estate	<input type="checkbox"/> Trust/estate
5 Address (number, street, and apt. or suite no.) See instructions. 2390 Alumni Drive Unit 3206	
6 City, state, and ZIP code Storrs, CT 06269	
7 List account number(s) here (optional)	
Requester's name and address (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number	
[] [] [] - [] [] - [] [] []	
OR	
Employer identification number	
0 6 - 6 0 7 0 7 2 2	

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶ <u>David L. Carney</u> <small>David Carney (Sep 17, 2021 11:19 EDT)</small>	Date ▶ 09-16-21
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.






W-9 for UConn Foundation

Final Audit Report

2021-09-17

Created:	2021-09-16
By:	Sue Demers (sdemers@foundation.uconn.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAASoqMXBHmLjo54Uh2kbWlqv9POz8EmO9b

"W-9 for UConn Foundation" History

-  Document created by Sue Demers (sdemers@foundation.uconn.edu)
2021-09-16 - 7:04:28 PM GMT - IP address: 165.225.38.97
-  Document emailed to David Carney (dcarney@foundation.uconn.edu) for signature
2021-09-16 - 7:05:15 PM GMT
-  Email viewed by David Carney (dcarney@foundation.uconn.edu)
2021-09-16 - 8:07:11 PM GMT - IP address: 104.47.70.126
-  Document e-signed by David Carney (dcarney@foundation.uconn.edu)
Signature Date: 2021-09-17 - 9:19:10 PM GMT - Time Source: server- IP address: 165.225.38.76
-  Agreement completed.
2021-09-17 - 9:19:10 PM GMT

GET IN CONTACT WITH OUR LEADERSHIP

Have any further questions? Feel free to reach out to our organization, or to one of our leadership members directly.

Organization email: aiaauconn@gmail.com

Executive Board

President

Adam Florkiewicz - adam.florkiewicz@uconn.edu

Vice President

Elena Hartley - elena.hartley@uconn.edu

Treasurer

Roshan Krishnan - roshan.krishnan@uconn.edu

Secretary

Enzo Mangiafico - enzo.mangiafico@uconn.edu

Social Media Manager

Matthew Kuczynko - matthew.kuczynko@uconn.edu

Safety Officer

Dakota Foytlin - dakota.foytlin@uconn.edu

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Test Stand Lead

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Injector Lead

Ayush Patel
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Business Lead

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