

José Alfredo Yañez Salas

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EDUCATION

Princeton University, Princeton, NJ Graduation Date: May 2022
Master of Engineering: *Mechanical Engineering, Aerospace Engineering* GPA: 3.4/4.0
Princeton University, Princeton, NJ Graduation Date: June 2020
Bachelor of Science: *Mechanical Engineering, Aerospace Engineering, Robotics and Intelligent Systems, Entrepreneurship* GPA: 3.1/4.0

RESEARCH

Robotic Model Organism: Designed, fabricated, and experimentally evaluated performance of a flying fish RMO to characterize the hydrodynamic performance including thrust generated, drag, and hydrodynamic moments. Findings were presented to Prof. Aimy Wissa and The Society for Integrative and Comparative Biology in January 2023.

Autonomous Land Surveying Using Ground Penetrating Radar (GPR): Designed and fabricated a robot capable of automating the process of GPR land surveying in order to increase efficiency and expedite the process by reducing the dependency on human operation. Findings were presented to Prof. Branko Glisic and published as a senior thesis in May 2020.

PROFESSIONAL EXPERIENCE

AnyFuel Engines | *Lead Product Engineer – Las Vegas, Nevada* Feb. 2022 – Present

- Oversee combustion engine product prototype development, manufacturing, and testing
- Support intellectual property patenting and government contract applications

Stealth | *Scrum Master – Princeton, New Jersey* Sept. 2021 – Dec. 2021

- Managed DevOps team
- Established Data Lake and documented Standard Operating Procedures
- Worked closely with the U.S. Air Force to onboard and analyze data for prospective technologies

Anheuser-Busch | *Audience Lead – New York, New York* June 2020 – Aug. 2021

- Implemented Robotic Processing Automations for national Market Basket Analysis and Product Availability Reports
- Increased ROI on Facebook marketing by 28% through 1st party data utilization
- Educated international branches on best practices for segmentation strategies and Personal Identifiable Information (PII)
- Awarded Global Solutions Excellence Program award for audience segmentation strategy via Customer Data Platform

Cisco Systems | *Global Technical Sales Intern – San Jose, California* June 2019 – Aug. 2019

- Provided account insights (market trends, business strategy, etc.) for accounts such as Google and U.S. Air Force
- Designed web app filtering malicious websites using Talos Intelligence, earning 1st place in Hackathon
- Lead team leveraging Cisco's CAM project to provide frictionless experience for employees by consolidating data

Andluca Technologies | *Control Systems Consultant – Princeton, New Jersey* November 2018 – January 2019

- Designed smart solar window prototype to wirelessly control system functionality accounting for user privacy preferences

LEADERSHIP & ACTIVITIES

Princeton University - Graduate Student Council | *M.Eng Representative* Oct. 2021 – May 2022

- Bridged gap between undergraduate and graduate student relations

Princeton University Rugby Football Club | *Fly-half* Nov. 2019 – May 2022

- Trained new athletes on game strategy and basic skills

Society of Hispanic Professional Engineers | *Treasurer* Oct. 2018 – Oct. 2019

- Coordinated national convention logistics, securing funding for 13 students

HONORS & AWARDS

Creative Media Awards - Data | *New York, New York* Feb. 2021

- “The creative use of data, including manual and/or algorithmic, processing, integrations, fusions, sourcing, etc., that achieves a better media campaign outcome.”

Donald Janssen Dike Award for Excellence in Undergraduate Research | *Princeton, New Jersey* June 2020

- “Awarded annually to the senior or seniors in the Department of Mechanical and Aerospace Engineering who, in the opinion of the faculty of the department, have excelled in undergraduate independent work.”

Mechanical and Aerospace Engineering Undergraduate Academic Support Award | *Princeton, New Jersey* June 2020

- “This prize is awarded in the spring to a qualifying member/s of the senior class who provided support to fellow students by organizing study and review sessions, preparing course materials, assisting with laboratories, or showing overall leadership.”

ADDITIONAL INFORMATION

Affiliations: Questbridge Scholar | Boys State | Society of Hispanic Professional Engineers | Athletes in Action | Rotary Club

Skills: Private Pilot Certificate | Native Spanish | Python | R | SQL | Java | Data Analytics | Prototyping | Manufacturing

Interests: Steer Wrestling | Snowboarding | Spartan Races | Travel | Jiu-Jitsu | Bodybuilding | Guitar | Country Swing Dancing | Painting

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