

Junipero Verbeke

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EDUCATION

San Jose State University <i>M.S. Aerospace Engineering</i>	June 2027
University of California, Santa Cruz <i>B.S. Applied Physics</i>	June 2025
Etoile du Matin - Eguelshardt, France <i>French Baccalaureate - Mention très bien</i>	June 2020

COURSEWORK

Courses: Linear Algebra, Vector Calculus, Differential Equations, Statistical Mechanics, Quantum Physics, Classical Mechanics, Thermodynamics, Object-Oriented Programming

PROJECTS

veritas-inc.com <i>Astro, HTML/CSS, React, APIs (Google Maps, SendGrid), Git, Unix Shell, VS Code</i> <ul style="list-style-type: none"> Renovated a company website, developing a full-stack web page Learned how to use Javascript in conjunction with APIs and ESM modules 	Jan. 2024
Double Pendulum <i>Python, NumPy, Matplotlib, MATLAB</i> <ul style="list-style-type: none"> Developed a simulation for a system of two pendulums, visualised with Matplotlib Implemented principles of classical mechanics with Python and MATLAB 	Nov. 2023

EXPERIENCE

Veritas Managed Solutions, inc. <i>Applied Engineer</i> <ul style="list-style-type: none"> Planning and estimating 80+ security projects, including Tesla Gigafactories Sparks and Austin Led the creation of the engineering team, creating 5 universal guides on implementing our systems for technicians Worked on security floor plans using AutoCAD and in-house tools Certified in Bosch intrusion and Gallagher access control systems Experience in Axis, Hanwha, Hikvision, Bosch and Honeywell security programming and systems Experience in Brightsign display programming Experience in LEA, Sonance, Kramer, Logitech, and Biamp audio-visual systems Field experience installing all above systems Created 3D animations in Blender for publicity 	June 2021 – Present
St. Thomas More School <i>Volunteer</i> <ul style="list-style-type: none"> Maintenance of St. Thomas More School's computer network and media rooms, maintaining Sunday mass streams Filmed and photographed events using Canon cameras, DJI drones and microphones, then editing with DaVinci Resolve, Adobe Premiere Pro and Photoshop 	Sept. 2022 – Present
Custom Fabrication <i>Personal business</i> <ul style="list-style-type: none"> Design and assembly of custom car roof racks and firearms for 5 customers using Blender, Fusion360 to create models and GCODE for 3D printing, CNC and water jet cutting Assembly and programming of 4 FPV drones, raced in local events 	2020 – Present

SKILLS

Languages: Python, JavaScript/TypeScript, Matlab, HTML/CSS, L^AT_EX, R
Tools: Simulink, Git/GitHub, Unix Shell, Simulink, VS Code, RStudio, AutoCAD, Fusion360, SketchUp, Visio, Blender
Frameworks: Astro, React, Node.js, TailwindCSS
Libraries: NumPy, Matplotlib