Junipero Verbeke

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EDUCATION

San Jose State University — June 2027
M.S. Aerospace Engineering

University of California, Santa Cruz — June 2025
B.S. Applied Physics

Etoile du Matin - Eguelshardt, France — June 2020
French Baccalaureate - Mention très bien

COURSEWORK

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

PROJECTS

veritas-inc.com | *Astro, HTML/CSS, React, APIs (Google Maps, SendGrid), Git, Unix Shell, VS Code* — Jan. 2024
- Renovated a company website, developing a full-stack web page
- Learned how to use Javascript in conjunction with APIs and ESM modules

Double Pendulum | *Python, NumPy, Matplotlib, MATLAB* — Nov. 2023
- Developed a simulation for a system of two pendulums, visualised with Matplotlib
- Implemented principles of classical mechanics with Python and MATLAB

EXPERIENCE

Veritas Managed Solutions, inc. | *Applied Engineer* — June 2021 – Present

- 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

St. Thomas More School | *Volunteer* — Sept. 2022 – Present

- 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

Custom Fabrication | *Personal business* — 2020 – Present

- 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

SKILLS

Languages: Python, JavaScript/TypeScript, Matlab, HTML/CSS, LaTeX, 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