

# Junipero Verbeke

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## EDUCATION

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

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

## EXPERIENCE

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

## SKILLS

**Languages:** Python, JavaScript/TypeScript, Matlab, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X  
**Tools:** Git/GitHub, Unix Shell, Simulink, VS Code, AutoCAD, Fusion360, SketchUp, Visio, Blender  
**Frameworks:** Astro, React, Node.js, TailwindCSS  
**Libraries:** NumPy, Matplotlib