

Sébastien Bolle

Engineering Undergraduate

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Engineering undergraduate with a wide range of skills in drafting, 3d solid modeling, and fabrication. I am passionate about design and creation and feel equally at home in an engineering office or machine shop. I can offer support to any engineering or management team at BNSF while learning from your many years of experience.

Experience

Oct. 2023 –
Dec. 2023

Teaching Intern, Western Center for Agricultural Equipment, University of California, Davis. Responsible for supervising student exercises during lab hours, grading assignments, ensuring a safe and respectful working environment. Give process demonstrations, prepare materials, and guide student projects. Help students achieve personal and learning outcomes. Will resume role as Undergraduate Reader, Jan. 2024.

June. 2023 –
Sep. 2023

Intern, Crush Fabrication and Mechanical. Worked with the mechanical team to design, build and install automated systems supporting the winemaking industry. Programmed VFDs, welded stainless steel assemblies, designed, built, and installed control panels, diagnosed automated systems, project management and client communication.

Aug. 2021 –
May 2022

Physics supplemental instruction leader, Napa Valley College. Created materials supplementing Physics for Scientists and Engineers courses and prepared students to succeed in current and future classes.

July 2019 –
Dec. 2021

Self-employed July 2019 – December 2021, providing design visualization and drafting services. See website for examples of my work!

June 2018 –
Dec. 2018

Engineering intern, James Loudspeaker. Created concept renders, production-ready 3d models and engineering drawings, filled custom sales orders, and collaborated with the engineering team to innovate upon the existing product line.

Education

Fall 2022 – Present	Currently enrolled at the University of California, Davis, studying Mechanical Engineering. Projected graduation June 2024. Problem solving, project management and implementation, communication. Critical role in AISC Student Steel Bridge team, 22-23 and 23-24 seasons.
May 2022	Digital Design and Graphics Technology Associate Degree, Napa Valley College. 2-dimensional drafting, GD&T, solid modeling, web design, image and graphics creation/editing, 3d animation, compositing, mechanical design concepts. 4.0 GPA in core courses.
May 2022	Mathematics Associate Degree, Napa Valley College. Differential equations, linear algebra, implementing computational procedures. 4.0 GPA in core courses.
May 2022	Physics Associate Degree, Napa Valley College. General study of Newtonian physics, relativity, and the movement of energy. 4.0 GPA in core courses.

Certifications

- Autodesk AutoCAD Certified Professional, 1000+ hours
- Autodesk Fusion360 Certified User
- Autodesk Inventor Introduction to Solid Modeling certificate of completion, 1000+ hours
- Autodesk Revit Fundamentals certificate of completion
- Autodesk 3ds Max Fundamentals certificate of completion
- Previously certified to operate forklifts up to 6500LB capacity

Skills

- Welding: GTAW, SMAW, GMAW
- Interpersonal communication related to technical discussions
- Hands-on experience with metal fabrication, cutting processes with bandsaw, oxy-fuel cutting torches, abrasive cutting machines, drilling, milling, and turning operations, grinding, and general shop safety practices.
- Proficient with Microsoft Office suite
- Proficient with Adobe Photoshop, Premiere
- C++, HTML/CSS and MATLAB fundamentals
- Bilingual (French and English)
- Working knowledge of low-voltage electrical wiring; including 3-phase motors, Variable-Frequency Drives, control panels, various sensors.

References available upon request