

# MARK M. SCHEFTER

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## EMPLOYMENT

### Scheffter Consulting Inc., Costa Mesa CA

(October 2021 – Present)

- o Offering engineering consulting services specialized in construction and commissioning of controlled environment agriculture (CEA) facilities. Large scale irrigation and Ozone water treatment skids
- o Creating detailed mechanical design packages including CAD, drawings, FEA, and reliability analysis
- o Acceptance testing, install scheduling, and onsite commissioning to enable on time and within budget project completion
- o Continuous improvement of operating production lines to reduce downtime, reduce part replacement intervals, and increase throughput to improve overall margins

### Plenty Unlimited, Mechanical Design Engineer, South San Francisco CA

(January 2021 – October 2021)

- o Spearheaded onsite engineering support during construction of first of its kind hydroponic leafy greens farm, coordinate with fellow engineers, general contractor and subcontractors
- o Designed and Integration lead for thermal cladding and automated doors in grow spaces
- o Decreased construction downtime from weeks to days due to fast design turnaround utilizing Catia whole farm model

### Frank M. Booth, Mechanical Design Engineer, South San Francisco CA

(October 2020 – January 2021)

- o Coordinated multiple projects simultaneously to design cost and energy efficient HVAC systems in a timely manner
- o Collaborated with engineering and other teams across the company using Bluebeam and Revit tools

## ENGINEERING TOOLKIT AND PROJECTS

### 3D Printing Experience

- o **Impact:** Utilized 3D printing for efficient design iteration and problem-solving, contributing to both professional advancements and personal projects.
- o **Prototyping & Solutions:** Designed and produced prototypes, production tools, and transitioning designs to traditional manufacturing methods like CNC machining and sheet metal forming.
- o **High-Volume Production:** Managed production runs of up to 10,000 units, demonstrating strong capabilities in scaling designs and maintaining quality.

### Custom Off Grid Camper Van Conversion

(May 2020 - October 2020)

- o **Project:** Converted a cargo van into an off-grid RV, from design to completion.
- o **Design:** Used SolidWorks for layout planning, integrating a convertible seating-to-bed area and a dual-function countertop that serves as both workspace and outdoor table
- o **Skills:** Handled electrical and plumbing systems, custom woodworking, and budget management.
- o **Outcome:** Delivered a functional, self-sufficient RV, demonstrating project management and technical skills

## EDUCATION

University of California Berkeley

Master of Science in:

**Civil & Environmental Engineering**

May 2020

Engineering and Project Management, Engineering & Business for Sustainability Certificate

**Overall GPA: 4.00**

California Polytechnic State University San Luis Obispo

Bachelor of Science in:

**Mechanical Engineering**

March 2019

**Overall GPA: 3.71**

**Major GPA: 3.75**

## RELEVANT COURSEWORK

Heat Transfer, Fluid Dynamics, Thermo Dynamics, Mechanics of Materials, Lean Construction & SCM, Econ of Sustainable Resources Development, Water Resource Management, Civil System & Environment

## SKILLS

**Computer:** SolidWorks, 3DX/Catia, Revit, Bluebeam, Arena, AutoCAD, MATLAB, Simulink, Microsoft: Excel (VBA)

**Practical:** Welding, Brazing, Mills, Lathes, Casting, 3D Printing, Wood Shop, Hand Drafting

**Language:** Bilingual in German and English

## INTERESTS

Sustainability: Life Cycle Assessment (LCA), LEED, Living Building Challenge, hydroponic farming  
Sports: Triathlon (7x Ironman Finisher, 2x Ironman World Championships Kona Finisher, 2x Half Ironman World Championship Finisher, Boston Qualified Marathon 2:34), 100k Ultra Finisher, Basketball, Surfing, Snowboarding, Videography