# Ayele Beniam

San Clara, CA 95051 | 408-981-1754 | alembeniam1988@gmail.com  | **LinkedIn**: www.linkedin.com/in/ayelebeniam1988

## SUMMARY

Self-motivated, problem-solver, and quick learner seeking a full-time position as Mechanical Engineer .
**Current Personal Projects:**        https://benaimayele.github.io/portfolio-site/

## EDUCATION

**Master of Science in Mechanical Engineering (MSME)**

San Jose State University

**GPA: 3.45 : Controls Design Focused**

**Bachelor of Science in Mechanical Engineering (BSME)**

San Jose State University

**GPA: 3.3**

## TECHNICAL SKILLS

**Design:**

VISIO | SolidWorks | Creo Parametric | AutoCAD | Icepack | Trace 700 | Revit | MATLAB | EasyEDA

**Programming:**

CCT | SCT | MATLAB | Arduino | LabVIEW

**Other:**

MS Office | MS Excel | PowerPoint

**HVAC Controls:**

- **JCI:** CCT | SCT
- **Delta:** ORCAview and enteliWEB
- **Distech:** EC-gfx and EC-Net 4

## EXPERIENCE

**BAS System Tech III @ Emcor Service Mesa Energy**

**Systems** *August 11, 2022* – August 08, 2024

- Interpreted S.O.O, controls, and mechanical drawings, assisting the design team by creating control drawings.
- Commissioned and made programming changes for JCI, Delta, and Distech controllers.
- Troubleshot network, hardware issues, and integrating 3$^{rd}$ party devices. Conducted FPT tests.

**System Designer I @ Johnson Controls**

*October 2018 – 2022*

- Interpreted bid documents and mechanical drawings to design control drawings for projects.
- Imaging and starting up NAEs, uploading, downloading, and backing up databases using SCT.
- Downloaded, uploaded, and programmed digital controllers through CCT and SCT.
- Commissioned and created summaries for BACnet MS/TP and N2 digital controllers.
- Troubleshot network, hardware issues, and integrating 3$^{rd}$ party devices. Conducted FPT tests.
- Sized and selected valves, ordered, and created BOM for projects.
- Conducted functional performance tests for HVAC equipment.

**Intern Mechanical Engineer @ Pragmatic PE, Inc.**

*March – May 2018*

- Ran load calculations using Trane Trace 700 and created permit drawings for HVAC using AutoCAD.

## OTHER PROJECTS

**Programmable EV Battery Cycler Prototype (MSME Graduation Project, SJSU)** - *August 2023- January 2024*

**Teaching Assistant for ME-190 Mechanical System Design @ SJSU** - *Fall, 2023*

**Manager of Cozypalm Inn (Rental Property in Bali, Indonesia)** – *December 2018 - Current*

- Manage employes & Maintain Cozypalm.com website and post advertising on Google and other platforms.
- Post rooms and manage availability on Airbnb, Google Maps, and Agoda using the Hotelruners platform.

## Undergrad SCHOOL PROJECTS

**Solar-Assisted Vertical Axis Wind Turbine (SAVAWT)** - *Spring 2018*

- Designed and built a Solar-Assisted Vertical Axis Wind Turbine using SolidWorks and Arduino.
- built electrical circuits and programming. incorporate voltage, current sensors, and Bluetooth modules.

**Mechanical Dog Toy** - *Fall 2016*

- Built a battery and solar-powered Automated Ball Launcher Dog Toy for people with physical difficulties using SolidWorks and design, assembly, and analysis of the system, achieving design specifications to launch up to 20 ft.

**HVAC Design (ME 183)** - *Spring 2018*

- Designed an HVAC system for an office building floor utilizing Trace 700 and Revit with Teammates.

**REFERENCES: Dwayne Purvis,** Consulting Senior Engineer, (216)-456-5355 | **Oscar Melendez**, CTRL's System Tech @ Emcor Services: Mesa Energy Systems, (925)-529-2410 | **Abdou Diop**, Building Engineer @ Lam Research, (510)-410-5411 | **Desmond Wong**, CTRL's System Tech III @ Emcor, (415)-312-5556 | **Jose Topete**, mentor and Supervisor @ Emcor, linkedin.com/in/jose-topete-a2775444 or E-mail : jjtopete@gmail.com, 408-838-1410 | **Saeid Bashash**, Control System Engineer, 864-650-7539