

SUMMARY

Self-motivated, problem-solver, and quick learner seeking a full-time position as Mechanical Engineer .

Portfolio: <https://benaimayele.github.io/portfolio-site/>

EDUCATION

Master of Science in Mechanical Engineering

(MSME) San Jose State University , May, 2025

GPA: 3.45 : Controls Design Focused

Bachelor of Science in Mechanical Engineering (BSME)

San Jose State University , May, 2018

GPA: 3.3

TECHNICAL SKILLS

Design:

VISIO | SolidWorks | Creo Parametric | AutoCAD | Icepack | Trace 700 | Revit | MATLAB | EasyEDA | Trace 3D

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
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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.
- Troubleshoot network, hardware issues, and integrating 3rd 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.
- Troubleshoot network, hardware issues, and integrating 3rd 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.
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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 employees & maintain website and post advertising on Google and other platforms.
 - Post rooms and manage availability on Airbnb, Google Maps, and Agoda using the Hotelrunners platform.
 - o link: https://www.booking.com/hotel/id/cozy-palm-inn.html?force_referer=https%3A%2F%2Fwww.google.com%2F
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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.
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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