

## SUMMARY

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

**Current Personal Projects:** <https://benaimaye.github.io/portfolio-site/>

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## 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**

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## 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
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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 3<sup>rd</sup> 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 3<sup>rd</sup> 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.
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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](https://www.linkedin.com/in/jose-topete-a2775444) or E-mail : [jjtopete@gmail.com](mailto:jjtopete@gmail.com), 408-838-1410 | **Saeid Bashash**, Control System Engineer, 864-650-7539