Mitchell Anthony Victoriano

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EDUCATION

San Jose State University, San Jose, CA
BS Mechanical Engineering **Fall 2014 – Spring 2019**
Minors: Computer Science**,** Mathematics
GPA: 3.7
Dean's Scholar 2016 - 2019
Tau Beta Pi (Engineering Honors Society) – SJSU Eta Chapter

UNIQUE COURSEWORK

Upper Division: Thermal System Design, Partial Differential Equations, Linear Algebra I, Intro to Graph Theory, Numerical Analysis and Scientific Computing, Server-side Web Programming
Graduate Level: Computational Fluid Dynamics for ME

SKILLS

Technical: ANSYS (Fluent, Icepak, Static Structural), SOLIDWORKS, Creo/ProE, Full-Stack Web Development (HTML5, CSS3, JavaScript, PHP, MySQL), MATLAB, C, Java
Languages: Japanese – Intermediate Proficiency (JLPT N4-N3)

PROJECTS

Biomass Fuel Synthesizer Subsystems **Fall 2018 – Spring 2019**

- Created a water Thermal Storage system using two flat plate solar collectors to maintain 50 gallons of water above 35 °C
- Created a Data Collector using an Arduino that collected data from 8 different sensors over a 24-hour period
- Developed a Full-Stack web application that received data from an Arduino that organized and visualized data from a MySQL database
- Saved timestamped sensor data to an SD card and sent to a Web Server for data visualization

Shower Heat Exchanger **Spring 2018**

- Verified the design of a horizontal double pipe heat exchanger by using ANSYS Fluent
- Evaluated the cost effectiveness of the proposed heat exchanger design which is positioned underneath the shower floor and recovers wasted heat from the previously heated shower water

Ball and Plate PID Controller **Fall 2017**

- Prototyped a Ball Centering Table which would balance a foam ball in the center of a platform that would correct itself upon any external disturbances
- Utilized ultrasonic sensors, light dependent resistor (LDR) sensors, photo interrupters, servo motors, and an Arduino ATmega328 micro-controller

EXPERIENCE

Goal Oriented Academics & Learning Sciences (GOALS) – Mathematics Tutor **Fall 2017**

- Facilitated group and 1-on-1 tutoring in High School math subjects including Algebra I and II, Geometry, Pre-Calculus, and Calculus AB and BC
- Created grade level examinations and curriculum according to Common Core State Standards for Mathematics
- Managed IT computer maintenance including software installation, hardware repair, and troubleshooting