Raymond Akagi

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Education:

Bachelors and Masters of Science: Mechanical Engineering
California Polytechnic State University, San Luis Obispo, CA

Undergraduate **GPA**: **3.6** Graduate **GPA**: **3.87**

Thesis: Create a theory based on actuator disc theory which includes frictional losses and swirl to predict/model the performance and/or parameters of importance for use as an energy extractor

Related Course Work/Skills:

Programs: Matlab, Solidworks, EES, Caesar II, ADAMS

Coursework:

Mechanics of Materials
 Thermodynamics I/II
 Statics/Dynamics
 Design for Strength and Stiffness
 Measurement and Data Analysis

Heat Transfer
 Advanced Heat Transfer
 Viscous Flow
 Design of Machinery
 Mechanical Vibrations

- Thermal System Design - Mechanical Control Systems - Machinery Vibration and Rotor Dynamics

Nuclear Power Plant Design - System Dynamics - Senior Design Project

Work Experience:

Design Engineering Intern: Chevron, Capital Projects Group

June – Aug 2020

Expected Graduation: March 2021

Location: Chevron Richmond Refinery, Richmond, CA

- Worked on and completed various projects with cross-functional interns in a virtual environment
- Communicated effectively within the group and with other working professionals to gain and spread information
- Mentored other group members on piping systems, fluid mechanics, stress analysis, and general refinery knowledge
- Expanded my depth and breadth of knowledge in the upstream and downstream sections of the oil industry
- Provided suggestions and guidance on project decisions that balanced multiple aspects of the business needs
- Presented project results to technical and leadership team.

Design Engineering Intern: Chevron, Central Engineering Group

June – Sept 2019

Location: Chevron Richmond Refinery, Richmond, CA

- Worked in the Design Engineering Department focused on pipe stress analysis.
- Completed stress analysis and provided suggestions to Designs Engineer to have piping conform with standards and best practice.
- Worked with cross-functional groups
- Presented project results to technical and leadership team.

Design Engineering Intern: Chevron, Hydroprocessing Group

June - Sept 2018

Location: Chevron Richmond Refinery, Richmond, CA

- Worked in the Design Engineering Department supporting the Hydroprocessing units
- Completed 3 Engineering Work Orders and 3 Leak Seal Reviews
- Followed the design process to repair, improve, or remove equipment
- Worked with cross-functional groups to design and prepare EWO's to improve process safety
- Presented project results to technical and leadership team

Mechanical Engineering Intern: NTUST, Precision Manufacturing Lab

July - Sept 2017

Location: National Taiwan University of Science and Technology, Taipei, Taiwan

- Worked in a Precision Manufacturing Lab
- Learned about the CMP, wire sawing processes, and how a CCS works
- Designed a fixture in Solidworks, 3-D printed and installed it into a CMP machine
- Conducted experiments and completed analysis
- Prepared and presented findings to graduate students and Professor
- Helped Graduate students complete their thesis'

Achievements:

•	Dean's List 9 times:	2015 – present
•	Eagle Scout, Boy Scouts of America:	Oct 2014
Activities/	Interests:	
•	Member of Engineers Without Borders	2016 – 2019
•	Member of Cal Poly Honors Program	2016 – 2018
•	Intramural Soccer (Mens/Co-rec)	2015 – Present
•	Futsal league	2018 – 2019
Volunteer	Experience:	
•	Stanton Community Garden, Castro Valley, CA	2012 – 2019
•	Castro Valley Sanitation District, Castro Valley, CA	2010 – 2014
•	Nature Corps, Yosemite restoration project	July 2016