

Jonathan Goenadibrata

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Summary

A highly motivated and team-oriented future Mechanical Engineer who is interested in Robotics & Controls. A fast learner curious in discovering new things.

Education

GPA: 3.43

University of California, San Diego | Mechanical Engineering B.S.

Expected Jun 2021

Relevant Coursework: Solid & Fluid Mechanics, Properties & Mechanics of Materials, Engineering Graphics & Design, Circuits & Devices, Autonomous Vehicles, Controls & Systems

Projects

AssaultMIP | University of California, San Diego

Jan 2020 - Present

- Design and optimize a Mechanical Inverted Pendulum (MIP) that could pick up, store, shoot ping pong balls, and self-balance itself while achieving it with only 4 actuators
- Developed a wheel using SolidWorks to pick up ping pong balls from the ground into the body of the MIP thus lowering the need for more actuators

QRnTeam | University of California, San Diego (bit.ly/jonathangoQRnTeam)

Aug 2020 - Sep 2020

- Constructed and Programmed using ROS the Jetson Nano to read and adjust its speed based on special "Road Signs" using ArUco Markers
- Achieved a live footage of the Jetson Nano detecting multiple signs as well as its position and orientation in the 3D space while displaying the current speed of the Jetson using OpenCV

Team Jack | University of California, San Diego (bit.ly/jonathangoMAE3)

Sep 2018 - Dec 2018

- Planned, designed, and optimized a working robot capable of scoring in a miniature sports arena with limited resources and time using Autodesk Inventor therefore gained experience with CAD software
 - Designed and fabricated a 1:9 ratio gear configuration, creating a shovel capable of lifting a load of 1 kg, 300% heavier than the maximum load in a typical configuration
 - Created a chassis design allowing a 25in vertical lift with its initial position still contained in a 10in x 10in x 10in
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Leadership Experience

San Diego Indonesian Association | Marketing Design

Jan 2020 - Jul 2020

- Worked in a team of 12 people and collaborated on ideas for important events to gather Indonesian students in San Diego and help them establish connections
- Developed marketing strategies to gain exposure on the club's social medias and events, achieving a 400% increase in instagram interactions
- Shot and produced videos using Adobe Premiere Pro for officers' recruitments to promote and inform members of their job desks, achieving a 100% increase in applicants compared to the previous year

IndoDVC, Diablo Valley College | Marketing & Design

Nov 2016 - Nov 2017

- Created marketing weekly posters as graphic designer of DVC's Indonesian Student Association consisting of 200 students to update on upcoming events
 - Coordinated a banquet for transferring students with a \$10,000 budget
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Skills

Major Related: SolidWorks, MATLAB, Engineering Drawing, Arduino, ROS, 3D Printing, OpenCV, Python

Interest: Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator