

NICOLAS NEBEL

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EDUCATION

UC San Diego

Class of 2022

- Computer Science (B.S.)

EXPERIENCE

Robotics Club – *Computer Vision Lead*

2015 – 2016

- Taught students how to program in C++ using OpenCV on Linux
- Led creation of software to detect reflective targets using a camera

Robotics Club – *R&D Lead*

2016 – 2017

- Led creation of and coded animatronic cow, humanoid robot, wiffle ball shooter, and interactive team booth

PROJECTS

java-3d-renderer

git.io/fxJLY

- Pure software real-time 3D renderer written in Java using the standard 2D libraries. Includes .obj file reader and first person camera

vulkan-renderer

git.io/fxjLZ

- An in-progress real-time renderer using Vulkan written in C++

donkey-models

git.io/fxJLl

- A collection of models and scripts used to run and train a self driving r/c car.
- Uses Keras models on donkeycar platform running on Raspberry Pi

AWARDS

Blue Ribbon Award @ SD Maker's Fair

Oct. 2016

- Phone controllable animatronic cow won out of over 100 projects
- Led project, coded Arduino controller and wired electronics.

Best In Show @ SD County Fair

July 2017

- Chest up humanoid made with Arduino won out of entire county
- Led project, wired electronics, designed in Solidworks, and coded in Arduino C

Most Unique @ CodeDay San Diego

Nov. 2016

- Game made in unity3d that pits a car against a plane