NICOLAS NEBEL

NNEBEL@UCSD.EDU | (858) 780 - 6613 | GITHUB.COM/NICKWN

EDUCATION	Class of 2022
UC San Diego Computer Science (B.S.)	
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++ 	Sittiofingua
donkey-models	git.io/fxJLl
 A collection of models and scripts in python used to run and train a self driving r/c car. 	0
· Uses Keras models on donkeycar platform running on Raspberry Pi	
AWARDS	
NAVAIR FRCSW Advanced Technology & Innovation Prize @ SD Hacks	Oct. 2018
 Led team in creating VR tool in C# and Unity to help filmmakers film VFX shots and 3D animations by placing them in their virtual scene with a virtual camera 	git.io/fxoVy
Best In Show @ SD County Fair	July 2017
· Chest up humanoid made using 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	<u>git.io/fxoVh</u>
Blue Ribbon Award @ SD Maker's Fair	Oct. 2016
Phone controllable animatronic cow won out of over 100 projects	git.io/fxowT
• Led project, coded Arduino controller and wired electronics.	

SKILLS

Languages: C++, Java, Python, C#

Technologies: OpenCV, Unity3D, Arduino, Vulkan, Keras