NICOLAS NEBEL

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UC San Diego Computer Science (B.S.)	Class of 2022		
		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	~:+ : ~ /fII V		
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	<u>git.io/fxjLZ</u>		
 An in-progress real-time renderer using Vulkan written in C++ 			
donkey-models	git.io/fxJLl		
 A collection of models and scripts in python used to run and train a self driving r/c car. 			
 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	git.io/fxoVh		
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