

Rohan Karunaratne's Resumé

Moreau Catholic High School, Hayward, CA

Rkarunaratne2022 AT moreaucatholic.org

(Four Zero Eight) Six Zero Three - Seven Two Zero One

Outside Experience and Achievements:

- Invited to speak at Sensors Expo , and article published in Sensors Magazine regarding improvements to car autopilots
 - <https://www.sensorsmag.com/components/improving-object-discrimination-for-autopilots>
- 1st Place in Category at California State Science Fair for project "A Real Time Tactile Image Generator for the Blind and Visually Impaired"
 - <http://cssf.usc.edu/Current/Panels/J08.html>
- 1st place wins in category for 3 consecutive years and Grand Prize Award at Alameda County Science Fair

Cumulative GPA of 4.38 at Moreau Catholic High School :

- Principal's Honor Roll
- Received Scholarship to attend High School

Skills:

- 3D Design
 - Experienced in 3D Design using Fusion 360 by Autodesk
- Programming
 - Experience in Python
 - Experienced in C
 - Experienced in Arduino
 - Some Experience in C++
 - Some Experience in VHDL (Xilinx, Lattice)
- Digital Media
 - Experienced in Adobe Dreamweaver, Photoshop, Illustrator, Premiere Pro, After Effects
- Circuit Board / PCB Design
 - Some Experience in Orcad and Autodesk Eagle
- Electrical Engineering
 - Experienced with using microcontrollers (Arduino)
 - General Electrical Engineering skills; soldering, wiring, assembly etc.
- Optics
 - Some experience in applications of cameras for programming
 - I.G. Open CV in Python
 - Some experience with different types of lenses and lasers for optics applications
- Hardware Experience (Prototyping and Industrial Design)
 - General Hardware skills; using powered tools