
Chase Omura

Kehillah Jewish High School, Class of 2024

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PROFILE

Conscientious, analytical problem solver who is planning to major in mechanical engineering. My passions have always been working with mechanical objects, such as cars and bicycles, as well as memory, storage and other computer peripherals. A fast learner, having accelerated in math from Geometry to AP Calculus BC in two years and described as “diligent,” “reliable,” and having a “good sense of humor” by my former teachers.

SKILLS

- Well-experienced in Microsoft Office and other productivity applications
- Experienced in Python, beginner level Java and HTML
- Customizing bicycles and go-karts for the past 6 years
- Custom e-bike conversions and custom gas-powered bicycle conversions
- Proficient in basic carpentry utilizing power tools (table saw, miter saw, drill and others)
- Basic knowledge in spoken and written Korean

WORK EXPERIENCE

Product Applications Engineer (Paid Internship), Astera Labs, 2023 - PRESENT

- Testing PCI Express chip interoperability between GPUs, CPUs and other devices
- Debug technical issues for key cloud customers like Microsoft Azure & Google Cloud Platform
- Learning to use and modify Python, Linux, and additional software code scripts
- Advanced multi-processor hardware server assembly and bring-up validation

Oyster Shucker, 2016 - PRESENT

- 6 large private parties (50+ guests); safe driving transportation provided in 2023
- Set-up workspace flow for optimal efficiency; ice chest to shucking station to plating to discard
- Keeping up with shucking demand of oysters and keeping sanitary conditions for food safety

Cat Sitter & Helper, 2022 - PRESENT

- Provide care and companionship of cats for neighbors on vacation
- Responsible with keys to the house, for feeding and hygiene of the cats
- Provide additional services for neighbors including mail, watering plants and helping with garbage

EDUCATION

Kehillah Jewish High School, 2023 to PRESENT

- Highlights: fall schedule includes Linear Algebra, Physics Honors, and Robotics Team

Santa Clara University Young Scholars Program in Engineering, Summer 2022

- Received an A- overall in Engineering 1 and Engineering 1 Lab, both college courses
- Worked with other students to engineer a device that helps blind people navigate their environment
- It was a hand-held device that could notify users of objects in front of them by vibrating the handle
- As part of the project, I was assigned to build the physical hardware of the device which I enjoyed

EDUCATION (cont'd)

Maple Lake Academy, 2022 to 2023

GPA: 3.85

- Highlights: Earth Systems, Financial Literacy, US Government and Woodworking

Los Altos High School, 2020 to 2022

GPA: 4.11

- Highlights: AP Calculus BC, Chemistry Honors, Design and Prototyping, and Cross Country Team

EXTRACURRICULAR ACTIVITIES

Kehillah Robotics Team, PRESENT

- The team participates in the International Robotic Sailing Regatta in Amesbury, MA
- Developing skills for 3D modeling using Fusion-360 for critical sailboat functions
- Responsibilities include designing, testing, and building of the winch system of the sailboat

Toy Inventor, From Junk to Joy, 2013 - PRESENT

- My personal passion project. Transforming household items and turning them into ride-on toys. Many of my projects are posted on my website www.chaseomura.com

Solo Performer, Piano, 2014 - PRESENT

- Studying piano performance and music theory for the past 9 years, primarily with Tanya Bardetskaya of Tatyana Music Academy. Favorite composers are Chopin, Liszt, and Joplin. Currently working on Hungarian Rhapsody No. 2 by Franz Liszt

Member, Service League of Boys, Mountain View/Los Altos, 2019 - PRESENT

- Volunteering in local community events, like the Los Altos Book Fair, packed groceries for Stand4, and restored old bikes with GreenTown Los Altos

Member, Los Altos Cross Country Team, 2021 - 2022

- Persevered through my first experience in an organized sport
- Increased speed performance by 27% from first race to last

RECOGNITION

Music Teachers Association of California- Certificate of Merit in Piano

2021- Level 8 (of 10)

Passed with State Honors: 90th percentile or better in all graded categories

2020- Level 5 (of 10)

Passed with State Honors: 90th percentile or better in all graded categories

International Competition of the Arts (Remote/Online during COVID)

Interstellar

2021- 3rd Prize, Solo Piano, "Sun Flower Slow Drag," by Scott Joplin

Zironka

2020- 2nd Prize, Solo Piano, "Liebestraum No. 3," by Franz Liszt

First Lego League Robotics Competition

2018- 3rd Place in Robotics, First Lego League Peninsula Championship

2018- 1st Place in Robotics and 1st Place in the Project, First Lego League Qualifier

2017- 7th Place in Robotics, First Lego League Silicon Valley Championship

2017- 1st Place in Robotics and 1st Place in the Project, First Lego League Qualifier

2016- Best Robot Design, First Lego League Qualifier