

# Zachery Van Es

27800 McBean Pkwy #377, Santa Clarita, CA 91354

(661) 644-2815 [zachvanes@gmail.com](mailto:zachvanes@gmail.com)

## EDUCATION

---

### Bachelor of Science in Computer Science

May 2018

*Minor in Mathematics*

California State University Channel Islands, Camarillo, CA

- Overall GPA: 3.2

**Programming Coursework:** Algorithms & Data Structures, Software Engineering, Operating Systems

**Mathematics Coursework:** Linear Algebra, Analysis of Algorithms, Probability and Statistics

**Other Coursework:** Artificial Intelligence, Mobile Robotics, Computer Graphics

## EMPLOYMENT

---

### Electronics/Computer Technician

August 2018 – Now

*USA Exports to China*

- Repair and refurbish electronics such as phones, computers, and game consoles
- Report and document common problems found during testing of products for increased proficiency
- Instruct others on optimal testing procedures and ensure workplace efficiency

## SKILLS

---

- Programming Languages: C, C++, Python, Java, HTML, CSS, JavaScript, and SQL
- Skilled with Unity and Android Studio
- Ability to operate and Install Windows, Mac, UNIX, and LINUX
- Experienced with building and fixing Computer Systems
- Proficient in Microsoft Office, SPSS, and Adobe Creative Suite
- Knowledge on the use of websites such as GitHub, WordPress, and Google Docs
- Experience with 3D modeling with programs such as Maya and the OpenGL library
- Knowledge on software engineering techniques such as Agile and Waterfall

## SOFTWARE PROJECTS

---

[www.github.com/ZacheryThomasVanEs](https://www.github.com/ZacheryThomasVanEs)

### Double Pendulum Simulation

- Developed a simulation of a double pendulum in motion for a set period of time
- Demonstrates the chaos theory by showing different results depending on input
- Variables such as length of pendulums, starting points, and time of simulation can be changed
- Produces a file of the simulation that can be viewed separate from the program
- Based around ocean waves and how their creation involves similar momentum
- Utilized: Python, Spyder, NumPy, SciPy, Matplotlib, MPEG-4

### Obstacle Avoidance Robot

- Built a mobile platform that used an on board computer as a processor for my capstone project
- Programmed basic turning and motor functions
- Developed a program to detect incoming obstacles and adjust accordingly
- Will speed up and slow down depending on surroundings
- Utilized: C++, Arduino, PsoC, Servomotors, LIDAR