

TYLER LABONTE

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EDUCATION

University of Southern California, Viterbi School of Engineering
Bachelor of Science, Computer Science and Business Administration
Minor in Statistics

Los Angeles, CA
Expected May 2021

- USC Trustee Scholarship (top 2% of USC Class of 2021)
- USC Viterbi Fellowship (top 6% of Viterbi Class of 2021)

Mililani High School

Mililani, HI

- National Merit Scholar (top 0.47% of PSAT takers)
- National AP Scholar (average score of 4.9 on 8 AP exams, including AP CS and AP Physics C)

High School GPA: 4.16

SKILLS

Languages: Proficient in Java, Experience in C/C++ and Python, Familiar with HTML/CSS

Software: Autodesk AutoCAD and Inventor, Eclipse, Microsoft Visual Studio, Github, Sublime Text, Python IDLE

EXPERIENCE

University of Southern California Integrated Media System Center (USC IMSC)

Los Angeles, CA
September 2017 - Present

Research Assistant

Mililani High School VEX Robotics

Mililani, HI

Lead Programmer

August 2015 - May 2017

- Achieved 1st place in two consecutive years at SkillsUSA Hawaii Mobile Robotics, 2nd place at the international Pan-Pacific Championships, and 1st place at the Hawaii State Championships, qualifying our team for Worlds.
- Utilized Autodesk AutoCAD and Inventor to streamline the prototyping process, leading to an Innovate Award for original and progressive integration of shooter and intake subsystems.
- Used C to develop autonomous robot code for subsystems such as drivetrain, arm, and claw/shooter.
 - Developed optimization algorithms such as take-back-half (TBH) and proportion-integral-derivative (PID).
- Mentored three underclassmen in programming and electrical systems throughout the robotics season.

PROJECTS

USCalendar

TrojanHacks Hackathon, University of Southern California

Honorable Mention

September 2017

- Applied Javascript to program an automatic push notification system for our course tracking website.
- Used HTML/CSS to code website front-end and navigation.
- Coordinated Git workflow to increase productivity for our four team members.

Final Frontier

February 2017 - April 2017

- Applied Java to build a space-exploration and trading game with an ASCII GUI and object-oriented architecture.

MIT Battlecode

January 2017

- Utilized Java to engineer an autonomous bot and compete in MIT's annual AI competition, winning 50% of our matches and advancing to the qualifying round despite competing against college and graduate students.

LEADERSHIP

SkillsUSA Hawaii

Oahu, HI

State President

August 2016 - May 2017

- Led state officers from four organizations in planning annual statewide conference with thousands of attendees.
- Implemented recruitment initiatives such as SkillsUSA Outreach Services, increasing school membership by 20%.
- Managed four delegates' meetings to distribute information and vote on new policy, and led three statewide community service events to increase SkillsUSA's impact on local elementary and middle schools.

Japan International Karate Center

Oahu, HI

Assistant Instructor

August 2013 - May 2017

- Earned my third-degree black belt after 12 years of training, along with the Sensei Clarice Tsuchiya Spirit Award.
- Taught up to 40 students from ages 5-80 for six hours per week, at both our headquarters and a satellite dojo.
- Earned five medals at the USA Karate National Championships, including a gold medal in Advanced Kata.