Getty George V

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Education:

University of California, Los Angeles (UCLA) Samueli School of Engineering, September 2020 - June 2024 (Expected)
Mechanical Engineering - GPA: 3.90
Two time dean's honor list recipient (Winter and Spring 2021)

Experience / Activities:

Bruin Racing Baja, *Electronically Controlled Transmission (ECVT)*, UCLA, October 2020 - Present
Wrote new software in C++ to handle control of the transmission while ensuring code is maintainable for future years
Recorded lessons to teach teammates about version control with Github to increase team programming efficiency
Learned about PID controllers and helped to implement and calibrate a PD controller in the ECVT controls code
Modeled sheave fixture using CAD and tested using finite element analysis before presenting and answering questions

American Computing Machinery teachLA, *Project Manager*, UCLA, October 2020 - Present
Draft and refine timelines to ensure interactive website project is completed in a timely manner without need for crunch
Organize developers and designers to work together effectively to avoid wasted time redoing design or code
Motivate team members to learn new skills, inform board members about progress, and adhere to program standards
Provide input and ideas during content and design stages as well as to help with implementation in React and Javascript

Engineering Ambassadors, UCLA, September 2020 - Present
Lead tours around the engineering department buildings to engage new and prospective students with the school
Represent the college of engineering during events by engaging with alumni while explaining personal projects and clubs

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Projects:

IdeaHacks Hackathon: Waypoint Compass - *Electronic compass that records and points back to specific locations*
Created a detailed CAD model that utilized a print-in-place mechanism to make it easier to produce with 3D printing
Collaborated with electronics team to supply ample room and a firm mounting solution for the microcontroller and wiring
Drafted a thorough technical writeup and accompanying presentation to explain our device's core functionality simply

Personal Project: MIDI Keyboard Transformation - *Reverse-engineered an old keyboard and added MIDI signal*
Disassembled and reverse-engineered an old keyboard to determine how the keys interface with the governing electronics
Programmed an Arduino in C++ to utilize the keyboard's scan matrix to read user input and convert to a MIDI signal
Kept a thorough engineering log complete with pictures, code, and assembly to document and better explain the process

ACM teachLA: Machine Learning - *Interactive site to teach college students about LSTMs, a machine learning model*
Ideated with board members and other leaders on project ideas that would be relevant to club members and other students
Organized a collaboration with a machine learning student group to build a robust curriculum covering all major topics
Recruited and onboarded new members by teaching how to use essential tools like GitHub, React and a programming IDE

BruinLabs Hackathon: Budgie - *Hardware and connected app to teach musical students rhythm*
Designed a physical product in CAD, using 3D printing to rapidly prototype, test, and improve the design over time
Presented designs and CAD renders to a panel of judges before answering questions about the product and process

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Skills:

Programs: CAD (Solidworks, Fusion), Solidworks finite element analysis, GrabCad, Github, Excel, Powerpoint
Languages/Software: Python, C++, JavaScript, TypeScript, React, HTML, CSS, Linux and Windows Command Line