CAMERON **YENCHE**

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EMPLOYMENT EXPERIENCE

Microsoft
Technical Product Management Intern (September 2022 - December 2022)

- Support the initial launch of Project AirSim: a simulation platform for training autonomous aerial agents
- Leverage web-scraping and engagement metrics to drive the conversion of open source simulation users to Project AirSim
- Define product requirements for simulator UI/UX and drive MVP development with design team
- Synthesize insights to formulate post-launch product roadmap and requirements for synthetic data generation and regulatory strategy

Genalyte
Embedded Software Engineer Intern / Electromechanical Assembler (April 2022 - August 2022)

- Design, program, and assemble embedded systems to support the development and production of machine that automates lab work blood diagnostics common in healthcare
- Develop, train, and implement computer vision model using transfer learning that identifies the machine state reports results of blood diagnostic tests

iAssay
Hardware Engineer Intern (February 2022 - June 2022)

- Collaborate alongside engineering team to develop a compact, low power thermo-cycler that runs from USB power
- Perform risk analysis and feasibility experiments relating to device thermal management
- Program thermal controller for resistive heating, Peltier cooling, and cooling fan elements using C++

Invitae
Process Development Engineer Intern (July 2021 - September 2021)

- Execute 10+ concurrent design and prototyping projects to develop and scale high volume manufacturing process for new cancer diagnostic product
- Program computer vision script using OpenCV for quality control of 10,000 daily unit batches
- Build and refine data-driven business case for simplified production process increasing production speed by 50% and decreasing costs by 10x
- Design, prototype, validate, and implement pneumatic dispense allowing for synchronization of multiple dispense heads and increased precision from 6% to < 1% coefficient of variation

Pautiva
Product Management Intern (January 2021 - June 2021)

- Work closely with international team in Spanish to develop technology strategy for automated advertisement creation product for professional practices in Spanish speaking countries
- Creation of product roadmap, A/B testing, and MVP framework to systematically increase software's automation leveraging NLP
- Develop product IP strategy for international expansion

PROJECT EXPERIENCE

Facial Tracking Webcam Device

- Train Machine Learning model to recognize and track only my face using TensorFlow and Python
- Integrate with Single Board Computer to rotate webcam to center my face in the video feed using ROS2

Autonomous Vehicle: Obey Traffic Signals and Lane Navigation

- Collaborate with team of 4, electrical and mechanical engineers, in development of 1/10 scale car that can autonomously navigate a simulated city track.
- Program robot to obey traffic signals (stop and go) with OpenCV, ROS2 communication structure, Docker Hub container management, and GitLab for version control
- Utilize gantt chart for milestone tracking and 2.5 week project completion

EDUCATION

University of California San Diego (September 2017 - June 2022)

- B.S. Mechanical Engineering: Specializations in Robotics & Controls, Renewable Energy & Environmental Flows
- Minor in Entrepreneurship & Innovation, Institute for the Global Entrepreneur Fellow

Computer Science & Robotics: Machine Learning, OpenCV, Autonomous Systems & Vehicles, Python /C++, Docker, MATLAB, ROS, Embedded Control & Robotics, Computational Methods, Arduino, Computer-Aided Design

Management: Project Management, Product Marketing, Innovation to Market, Lab to Market, Customer Focused Value, Innovation Tech Strategy, New Venture Finance, Managing Diverse Teams