Stephanie Akakabota

(407) 456-2907 | sakakabota@berkeley.edu | www.linkedin.com/in/stephanie-akakabota-26806b124

EDUCATION	
University of California, Berkeley, College of Engineering	Berkeley, CA
B.S. in Mechanical Engineering (GPA: 3.59/4.00)	Expected August 2025
SKILLS & TECHNICAL PROFICIENCIES	
• Programming & Software: Python, MATLAB, Arduino, MicroPython, C/C++	-, ROS, OpenCV
• Robotics & Mechatronics: Moteus motors, PID Control, DC/Stepper/Servo	motor control, Inverse
Kinematics, Path Planning, PCB Design, Circuit Debugging	
CAD & Fabrication: SolidWorks, LabVIEW, Machine Shop (lathe, mill, drill p Soldering	press, CNC), 3D printing,
Instrumentation & Measurement: Oscilloscones, Signal Generators, Data	Acquisition Systems
EXPERIENCE	Acquisition systems
Research Assistant	Berkeley, CA
Embodied Dexterity Group	May 2024 – Present
• Engineered and executed bio-inspired robotic systems using Moteus moto	ors and LabVIEW software.
• Engineered precise tail movements for a biomimetic fish robot, replicating	natural locomotion,
including C-start maneuvers.	
• Created and optimized Arduino-based control systems for robotic actuatio	n.
• Partnered on hardware integration to enhance mechanical performance a	nd dynamic response.
PROJECTS	
Dish-n-Dash: The Ultimate Robotic Dish Clearer	Berkeley, CA
Intro to Robotics Final Project	Fall 2024
• Engineered and implemented an automated dish-sorting robot for school kinematics and computer vision (DETR model)	cafeterias using inverse
 Developed motion control systems for precise robotic arm grasping and objective systems for precise robotic arm grasping arm grasping and objective systems for precise robotic arm grasping arm grasping	niect sorting achieving a 85%
classification accuracy	Jeet solting, demeving a 05%
Smart Cheese Grater Project	Berkeley CA
Mechatronics Course Project	Spring 2025 (In Progress)
Developing an automated cheese grater featuring a DC motor-driven trans	mission system for
ontimized torque control	sinission system for
 Implementing a state machine architecture using FSP32 for multiple grating 	ng modes enhancing user
control and efficiency	is modes, emaneing user
IoT Cat Laser Toy	Berkeley, CA
Int Electronics Course Project	Spring 2025 (In Progress)
• Designing an IoT-enabled interactive pet toy with 360-degree stepper mot	or rotation and
servo-controlled laser movement.	
Creating an ESP32-based wireless system for remote control, implementin	g adaptive play algorithms
and real-time activity tracking via a mobile app.	S addparte play algorithms
ACTIVITIES	
Cal Women's Swim Team (NCAA Division I)	Berkelev, CA
Team Leader	August 2021 – Present
Balanced a 20+ hour weekly training schedule with rigorous academics	
• 2024 Pac-12 Champion and NCAA Qualifier.	

HONORS & INTERESTS

• Honors: National Merit Finalist, Pac-12 Honor Roll, 2020 Int'l Piano Champion, 2021 Olympic Trials Qualifier

Stephanie Akakabota

(407) 456-2907 | sakakabota@berkeley.edu | www.linkedin.com/in/stephanie-akakabota-26806b124

• Interests: Robotics, Prosthetics, Swimming, Piano, Hiking, Crochet