THOMAS ADAMS

5021 Verdugo Way STE 105-446, Camarillo CA 93012
(805)-908-8785 | Thomas.Adams059@myci.csuci.edu | LinkedIn

EDUCATION

California State University, Channel Islands Expected Graduation: May 2023
Bachelor of Science, Applied Physics emphasis in Technology Spring 2019 - Fall 2021

California State University Channel Islands Expected Graduation: May 2023
Bachelor of Science in Mechatronics Engineering Spring 2019 - Fall 2021

PROJECTS

Multi-Sensor NI myRIO Weather Station (Engineering Design Project) Nov. 2021
- Researched, designed a circuit, and constructed a LabVIEW program using multiple sensors to obtain temperature and light values to inform a user of the current and previous hours' weather conditions.

Solar Tracking System Charging System (Electronics Project) May 2021
- Researched, designed, and constructed a solar panel system that tracks the sun to optimize solar charge to a trickle charge circuit for a 12V lead acid battery that provides a 5-volt USB charge to smart devices.

COMPUTER SKILLS

- Knowledge and extensive use of MATLAB, LabVIEW, Arduino, Logisim
- CLion, Visual Studio Code, AWS, EAGLE, VirtualBox, ImageJ
- Microsoft Suite, Google Suite, Adobe Suite
- Linux, Assembly Language (x86 & PEP9), Java, C

WORK EXPERIENCE

ATLAS Group, European Council of Nuclear Research (CERN) Geneva, Switzerland
Summer Research Intern May 2022 - Sep. 2022
- Studied the bb'+ττ' channel in DiHiggs production using Mad Graph at the Parton Level with variable masses and widths
- Investigated the interference effects of non-resonant and resonant production and the effects on signal

CSU Channel Islands Foundation Board of Directors Camarillo, California
Student Representative Aug. 2022 - Present
- Advocate for undergraduate research on behalf of the student body by presenting supporting evidence of its implications
- Provide student perspective and voice student concerns in advocacy of student success

CSU Channel Islands Peer Mentor Ambassador Program Camarillo, California
Peer Mentor Ambassador Aug. 2022 - Present
- Working individually with students in pursuing academic success by navigating barriers of academic or personal nature
- Providing guidance in time management, pursuing undergraduate research, and other forms of career advancement

NREIP Stellar Team, United States Naval Academy Annapolis, Maryland
Research Intern (Virtual Internship) Oct. 2021- Dec.2021
- Review and Research the Inverse Square Law, Parallax, and Radiation to study interplanetary distances
- Complete experiments replicating parallax and collecting data in accordance with said experiments

HSI-SMART: STEM Model for Research and Teaching Undergraduate-intervention Program, CSUCI Camarillo, CA
Research Assistant Aug. 2021- Present
- Reviewed methods and ways in which automation of microscopy can be achieved via hardware and software
- Investigating the use of Fast Fourier Transforms to measure the frequency of cardiomyocytes

Learning Resource Center, CSU Channel Islands Camarillo, CA

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Lead Tutor – Supervisor Aug. 2021 – Present
- Creating and editing published materials for center use regarding tutoring and tutor training
- Supervising and supporting tutors at the LRC in aiding students to succeed in their academic pursuits

LRC/STEM Center, California State University Channel Islands Camarillo, CA
Tutor Aug. 2020 – Present
- Provided educational assistance for college students in primarily Math, Physics, and Computer Science
- Administered individual and group tutoring in a multitude of college-level courses

Project PROMESAS, California State University Channel Islands Camarillo, CA
Embedded Peer Educator Aug. 2020 – Present
- Worked directly with Computer Science, Mathematics, and Physics instructors in creating classroom material
- Assisted instructors with in-class work comprehension of subject matter

Project PROMESAS, California State University Channel Islands Camarillo, CA
Embedded Peer Educator: Calculus I Aug. 2021 – Dec. 2021
- Facilitated review sessions for previous and upcoming test assessments outside of the classroom
- Teaching assistant in reinforcing concepts and material in the classroom to students during group learning

Project PROMESAS, California State University Channel Islands Camarillo, CA
Embedded Peer Educator: Assembly Language (PEP9) Jan. 2021 – May 2021
- Facilitated tutoring hours outside the classroom to aid in compilation and programming labs
- Attended synchronous material and collected material and notes to make available to students

Project PROMESAS, California State University Channel Islands Camarillo, CA
Embedded Peer Educator: Data Structure Algorithm for Engineering Science (C-based) Aug.2020 – Dec. 2020
- Reviewed students submitted programs and labs to aid professors in programming
- Hosted tutoring hours to support students in compelling and programming labs/assignments

ACCOMPLISHMENTS

School of Education, CSU Channel Islands Camarillo, CA
Celebration of Teaching Award Dec. 2022

American Physical Society | Far West Section 2022 Annual Meeting Honolulu, Hawaii
High Energy, Accelerator, and Particle Physics Session | Presenter Oct. 2022

Summarized an investigation regarding the DiHiggs search. More precisely, implementation of the Beyond the Standard Model Theory in which both non-resonant and resonant production occurs and its role on our signal.

SAGE Conference, CSU Channel Islands Camarillo, California
Presenter May 2022

With the use of a KiNEDx robot and a Lumascope inflorescent microscope, I shared our production of a platform for high-throughput fluorescence microscopy.

Student Success Network Conference | The Time Is Now: Forging New Visions for Equity in the CSU
Co-Presenter Oct. 2021
- Provided perspectives as an Embedded Peer Educator (EPE) on progressing equity in education. On behalf of the CSU Channel Islands Learning Resource Center, we advocated for the incorporation of EPEs in classrooms. An attribute that aids students' academic success forging greater equity in education.

HSI-SMART: STEM Model for Research and Teaching Undergraduate-intervention Program
HSI-SMART Undergraduate Research Assistant Scholarship Oct. 2021

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Gamma Beta Phi National Honors Society, CSU Channel Islands Chapter
Recognition of Scholastic Achievement Feb. 2020

EXTRACURRICULARS

Society of Physics Students, CSU Channel Islands Chapter Camarillo, CA
Secretary & Treasure Jan. 2022 - Present

- Facilitated numerous events and guest speakers to support students in developing a fascination with physics
- Hosted workshops to aid students in pursuing research in physics at the undergraduate level

LANGUAGES

- Arabic – Native/bilingual proficiency