

AARON KIRK

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OBJECTIVE

Ambitious and multidisciplinary freshman at University of California, San Diego looking to advance my knowledge of computational techniques in physics and become more involved in research.

EDUCATION

September 2020 – June 2024	B.S. Physics: Computational, Math—CS, University of California, San Diego Relevant Coursework: Introduction to Probability; Mechanics; Fluids, Waves, Statistical and Thermal Physics; Data Structures; Honors Linear Algebra; Intro Differential Equations; Intro Numerical Analysis 3.825 GPA, <i>In Progress</i>
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EXPERIENCE

September 2020 – Present	Technician, UCSD ITS Service Desk / ResNet <ul style="list-style-type: none">• Provide level 1 & 2 information system support to all stakeholders at UC San Diego.• Resolve issues in system access, network connectivity, privacy, and security, and similar.• Deliver the highest level of user experience and customer service.
August 2019 – October 2020	Instructor, Mathnasium of Manhattan Beach <ul style="list-style-type: none">• Taught K-12 math through custom materials, homework help, and test preparation.• Pinpoint needs through assessment and observation to build a custom learning plan.• Coordinated with parents to communicate issues, achievements, and progress.
July 2019-August 2019	Summer Intern, RC Costello & Assoc., Inc. <ul style="list-style-type: none">• Mapped industrial plant schematics to optimize client expenditures and manpower needs.• Ran large-scale simulations to gauge efficiency, throughput, and stability of plant designs in ChemCAD for subsequent redesigns.
December 2016-June 2020	Founder and Instructor, MBUSD Elementary School Robotics Program <ul style="list-style-type: none">• Led instructors to run weekly after-school program at local elementary schools for 4 years.• Taught basics of engineering design and robotics with VEX IQ framework.
August 2016-June 2020	Club President, Mira Costa High School Robotics <ul style="list-style-type: none">• Restructured operations and defined strategies to boost engagement and competitiveness.• Led design and iteration process of all robot sub-teams for competition.• Developed video curriculum including physics, CAD, and coding to prepare new students.• Managed finances and logistics; planned meetings and fundraisers; headed recruitment.

CURRENT PROJECTS

UWEAST Community Kitchen, Web-App <ul style="list-style-type: none">• Volunteer front-end development for the UWEAST Community Kitchen, a local San Diego non-profit, through UCSD TSE.• Developed with React frontend and Node.js/MongoDB backend.
QSource, Web-App <ul style="list-style-type: none">• Conducted survey of over 500 students to examine fears of asking questions in class.• Collaborate with high school computer science faculty to design an anonymous Q&A platform to facilitate student learning, research, and collaboration.• Developed with HTML/CSS/Node.js frontend and Java Spring/MySQL backend.
ScoutMe.me, Web-App <ul style="list-style-type: none">• Platform for data-collection, analysis, and predictions of teams in VEX Robotics Competitions for ideal alliance selection.• Developed with HTML/CSS/Node.js frontend and Java Spring/MySQL backend.

LANGUAGES

• Java	• Javascript
• C#	• MATLAB

TECHNOLOGIES

• React	• PHP	• Solidworks	• Microsoft Office Suite	• Adobe Creative Cloud
• HTML/CSS	• Git	• LaTeX		