Amir Alexander Abed
1548 E San Alto Pl. Orange, CA 92865, United States
alexanderaa2000@gmail.com   aabed@ucsd.edu   (714) 400-6759

EDUCATION
UNIVERSITY OF CALIFORNIA SAN DIEGO 9500 Gilman Dr., La Jolla, CA 92093
Working towards a Bachelor's degree in Electrical Engineering. Graduating June 2022.
GPA: 3.4 (year 3 quarter 3)

JOB EXPERIENCE
RF Precision Cables / Technical Assistant
June 2016 - PRESENT (During Summer), 1600 S Anaheim Blvd F, Anaheim, CA 92805
● Hands-on work with the assembly of radio frequency cables, specifically coaxial cables
● Testing cables for function and shipping them to companies worldwide

SKILLS
● Languages: C, C++, Python, MATLAB, Java, Javascript, HTML, CSS, Processing, Verilog
● Design: Solidworks, Eagle CAD, Mastercam, Vivado, Quartus Prime
● Utilities: Microsoft Office, SDR software, ESP32s, RFID scanners
● Technologies: Linux, Docker, MySQL, Arduino, Raspberry Pi, Soldering, Breadboarding
● Fluent in English and Arabic, as well as proficiency in French and Spanish

ACTIVITIES, AWARDS, and GROUPS
● IEEE member and group project participant, 2 years in QP (Quarterly Projects)
● IEEE QP++ Winter quarter 2020 competition winner (ENLIGHTEN)
● IEEE QP Fall quarter 2019 competition runner-up (!ForgettaBoutIt)
● ECE courses dealing with robotics and automation, such as line-following robots
● Quantum Computing at UCSD member

PROJECTS
ENLIGHTEN
  ● Automated home light switches that turn on when person is detected in room using tensorflow, ESP32, Raspberry Pi, Firebase, Bluetooth Low Energy
!ForgettaBoutIt
  ● RFID scanner device using Arduino-based module inside backpack notifies via app which objects are there, makes reminders about important missing items.
ECE 111 (DIGITAL DESIGN)
  ● Bitcoin mining algorithm using SHA-256 hash algorithm in System Verilog
ECE 107 (ELECTROMAGNETISM)
  ● Matlab program finding discretized charges and capacitance of a parallel plate capacitor
WEB DESIGN
  ● Personal website: https://www.amirabed.com designed, coded, and launched from scratch using HTML, CSS, and Javascript