

# Alexander Rahman

Chandler, Arizona | alexander.ferdous.rahman@gmail.com

## LEADERSHIP

### Youth Tech Academy | Chairman of the Board of Directors

Chandler, Arizona | youthtechacademy.org

Lead a nonprofit offering week-long technical education camps for students in grades 5-8. Topics include cybersecurity, artificial intelligence, computer hardware, robotics, coding, and leadership, introducing potential college and career paths in STEM.

### City of Chandler | Mayor's Youth Commission

July 2024-June 2026 | Chandler, Arizona

Advised the City Council on youth issues and contributed perspectives on policies and initiatives involving education, digital literacy, and youth mental health resources. Collaborated with city officials and developed leadership, public speaking, and policy analysis skills.

## HONORS AND ACHIEVEMENTS

**City of Chandler Volunteer Award, 2025** - Innovation. Recognized for creativity and innovative solutions in volunteerism.

**Arizona Science and Engineering Fair, 2025** - Best in Fair | ISEF qualifier. Qualified for ISEF 2025 in Ohio in the Biomedical and Health Sciences category.

**Arizona Science and Engineering Fair, 2022** - 1st Place | Junior Division, Behavioral Science. Awarded first place in the junior division's Behavioral Science category.

**Johns Hopkins University Center for Talented Youth** - Grand Honor | Study of Exceptional Talent. CTY Grand Honor and Study of Exceptional Talent (SET) recognition.

## SCIENCE FAIR PROJECTS

**2025** - Low-Cost Digital Nanoparticle Sensors for Rapid and Accurate Detection of Viral Antigens in Pandemic-Causing Diseases

**2024** - Quantifying Stress: A Machine Learning Guided Stress Predictor

**2023** - A Machine Learning Approach to Predict Arizona Water Scarcity

**2022** - How Sleep Impacts Academic Performance

## EDUCATION

### Hamilton High School

Student in Chandler, Arizona.

### Chandler-Gilbert Community College | GPA 4.00 / 4.00

Completed 13 college credits through Maricopa Community Colleges while in middle school. Coursework: Engineering Problem Solving and Design (ECE 103), Engineering Analysis Tools and Techniques (ECE 102), Survey of Computer Information Systems (CIS 105), Linux Operating System (CIS 126DL), and Python Programming Level 1 (CIS 156).

**Test scores:** SAT Math 740/800 (March 2023, seventh grade); AP Precalculus 5 (taken in middle school).

# Alexander Rahman

Learning, teaching, and community service

## EXPERIENCE

### Arizona State University | Logic, Leadership & Life Skill Summer Camp

June 2024 | Tempe, Arizona

A four-day youth camp focused on goal setting, leadership skills, and individualized attention from life coaches.

### Harvard Debate Council | Summer Workshops

July 2024 | Cambridge, Massachusetts

Developed skills and strategies for varsity-level public forum debate. Participated in a practice tournament, refining arguments and techniques through successive rounds.

### Air Force LEGACY | Craftsman Camp

July 2024 | Arlington, Virginia

Participated in hands-on demonstrations connecting math and science to everyday applications, while building knowledge, self-confidence, and leadership.

### Arizona State University | Robotics Camp

July 2024 | Tempe, Arizona

Constructed a LEGO EV3 robot and programmed it using the EV3 graphical programming language.

### NASA Space Center University | Five-Day Lunar Program

Summer 2023 | Houston, Texas

Worked on projects in robotics, scientific design, and rocket launching. Collaborated on a sustainable living environment recognized as the top project and showcased at the space center.

### CactusCon Kids | Graveyard Station Lead

February 2024 | Mesa, Arizona

Taught computer hardware to more than 100 primary and middle school students. Managed the Graveyard Station, introducing a 1U server and desktop computers for hands-on learning.

## VOLUNTEER SERVICE

### Trinity Christian Fellowship Church and MOVE

Chandler, Arizona | Muslim Outreach & Volunteer Enterprise

Participate in monthly food and toiletries distribution for refugees and community members in need in the greater Phoenix community. Assemble packages of rice, beans, oil, toilet paper, soap, and other essentials, and load boxes into cars for distribution.

### Tri-M Music Honor Society | BASIS Chandler

2023-2024

Regularly performed piano recitals at a local assisted living facility. Performed a saxophone tribute honoring veterans during a Veterans Day breakfast at PARK Senior Villas in Chandler.