

Ahad Rizvi

Thomas Jefferson High School for Science and Technology, Senior

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Skills, Honors, and Other Experience:

Fluent in Java, ArduinoC, HMTL, CSS, XHTML, Python, JavaScript

Dabbled in C, C++,

Have fluency and experience in signal acquisition, processing, and amplification techniques.

Investigated The Applications of Common Flowers as Riparian Buffers: The Effects of Different Types of Plants on Phosphate and Nitrate Concentrations in Water in a year-long project

Built a scheduling and productivity webapp utilizing the Pomodoro technique

USACO Silver

National Latin Exam Gold (2014, 2015, 2016)

NJCL Etymology Exam Gold (2013, 2014, 2015)

Built a remake of Atari Lunar Lander in Java

Have extensive experience in designing, building, bread boarding, programming, and general fluency with Arduino based electronics projects as well as with other microcontrollers.

Have experience and fluency in operating an oscilloscope and working in a lab environment

Relevant Education

GPA 4.252/4.0 (Weighted)

AP BC Calculus

Algebra 2/Trig/Data Analysis

TJ Foundations of Computer Science

Pre-Calculus

AP Computer Science Plus Data Structures

Biology I Honors

Advanced Analog Electronics

Chemistry I Honors

Advanced Digital Electronics

TJ Physics I Honors (Mechanics, E&M, Waves)

JHU CTY Introduction to Web Design (CSS, HTML, XHTML)

Leadership Experience

Electronics Club: Officer

Taught electronics techniques, bread boarding, circuit design and basics of electronics theory, and lead a team to create a electronics based projects

Worked on a team project to design, construct, and program an LED sphere.

Investigated techniques to acquire signals and data from a rotary phone and port the data via Bluetooth to be compatible with a modern Android smart phone.