

# Dylan VanAllen

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<https://dylanjva.github.io/>

I am currently an undergraduate, studying at University at Albany, majoring in physics and computer science. Looking to continue education into graduate studies in theoretical physics.

## EXPERIENCE

### 2021 – PRESENT

#### RESEARCH ASSISTANT, SUNY AT ALBANY RESEARCH FOUNDATION

Working on a NASA-funded project named “Adaptive Calibration of CubeSat Radiometer Constellations (ACCURACy)” under Principle Investigator Mustafa Aksoy in the Department of Electrical and Computer Engineering. The goal is to use machine learning to calibrate constellations of CubeSat radiometers.

### 2020 – PRESENT

#### TUTOR, SUNY AT ALBANY EDUCATIONAL OPPURTUNITIES PROGRAM

Tutoring computer science courses at State University of New York at Albany in:

- Foundations of Computer Science
- Data Structures
- Programming at the Hardware/Software Interface

### 2018 – PRESENT

#### PRIVATE TUTOR

Tutoring collegiate level courses in general physics, calculus, and algebra as well as intermediate level computer science courses in python and java.

### 2019

#### JUNIOR PROGRAMMER, ZULUCARE (516) 741-7960

Managed the phone systems of several clients and dealt with technical issues. Configured PBX server for phone system. Developed web services in NGINX server.

### 2018-2019

#### MUNICIPAL CONTRACTS ASSISTANT, ALLIED OIL CO (908) 300-3519

Updated and reviewed invoices. Monitored pricing and maintained documentation for municipal customers.

## EDUCATION

### MAY 2022

#### B.S. PHYSICS, STATE UNIVERSITY OF NEW YORK AT ALBANY

3.88 GPA. Courses in linear algebra, discrete probability, advanced mechanics, electromagnetism, waves, and some quantum theory.

**MAY 2022**

**B.S. COMPUTER SCIENCE**, STATE UNIVERSITY OF NEW YORK AT ALBANY

3.59 GPA. Courses in data structures, algorithms, computer architecture, principles of programming languages, and Bayesian data analysis

**2017 - 2019**

**RARITAN VALLEY COMMUNITY COLLEGE**

3.17 GPA. Courses in general education, calculus, differential equations, and computer science intro courses for Java, Python, Linux, and HTML/CSS.

**2012- 2016**

**HIGH SCHOOL DIPLOMA**, SOMERVILLE HIGH SCHOOL

**2010 - 2011**

**JOHNS HOPKINS CENTER FOR TALENTED YOUTH**

Summer programs in advanced robotics using Java and C#

## SKILLS

- Experience with Java, Python, C/C#/C++, HTML/CSS, MATLAB, and LaTeX
- Some experience in UNIX/Linux operating systems
- A strong knowledge of multivariable calculus, probability, linear algebra.
- A background in physics
- Experience with Bayesian data analysis and Markov chain Monte Carlo computational methods

## ACTIVITIES/AWARDS

**INDEPENDENT STUDY**, STATE UNIVERSITY OF NEW YORK AT ALBANY

Working with Professor Oleg Lunin to gain a base knowledge of string theory.

**DR. SETH SPELLMAN, JR. ACADEMIC ACHIEVEMENT AWARD**, STATE UNIVERSITY OF NEW YORK AT ALBANY

Fall 2020

**ROBOTICS CLUB**, SOMERVILLE HIGH SCHOOL

Programming team captain