Michael Ryan

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EDUCATION

Cherry Hill High School East

VALEDICTORIAN || SEPTEMBER 2015 - JUNE 2019

AP Capstone Diploma Eligible. Member of Cum Laude Society and National Science Honor Society. Recognized for All 'A' Honor Roll and Student of Character Award. | Weighted GPA – 7.0 |

New Jersey Governor's School of Engineering and Technology, Rutgers - New Brunswick

JULY 2018

Wrote and presented research project "Cloud Computed Machine Learning Based Real-Time Litter Detection using Micro-UAV Surveillance". Collaborated on a 3500 Rubik's Cube mural. Took classes on Physics, Robotics, Materials Science, and Civil Engineering. Voted "Most Computer Savvy" by peers.

WORK EXPERIENCE

Code Ninjas, Cherry Hill,NJ — *Assistant Manager/Lead Sensei*

JUNE 2018 - PRESENT

Introduce elementary and middle school students to programming and developed a lesson plan for trial sessions. Mentor new senseis. Coordinate birthday activities and parties. Create weekly employee schedule.

Edmund Optics, Barrington, NJ — *Intern, Imaging Business Unit*

JUNE 2017 - AUGUST 2017

Designed, built, and programmed a lead screw linear actuator trade show demo for the company to showcase the quick focus of their liquid lenses.

ACTIVITIES

Cherry Hill East Robotics — *Club Officer*

SEPTEMBER 2015 - PRESENT

Mentor younger high school teams. Organize fundraisers and lead club meetings.

Middle School Robotics — *Mentor*

APRIL 2017 - PRESENT

Implemented Robotics Program at the middle school level. Volunteer weekly instructing students on Robotics using VEX IQ. Refereed two middle school robotics competitions at Rosa International Middle School.

Peer Tutoring

2018 - PRESENT

Instruct and aid an Algebra II student on the curriculum weekly. Tutor students monthly in math and science for cum laude.

Badminton Club

FALL 2017 - PRESENT

Participate in weekly badminton games.

AWARDS

RESEARCH

- Accepted for Oral Presentation at IEEE MIT Undergraduate Research Technology Conference, 2018

ROBOTICS

- Think Award, VEX NJ State Championship, 2017
- Tournament Champions, VEX, 2017, 2016 (5 times)
- Tournament Finalists, VEX, 2018, 2017, 2016 (5 times)
- Think Award Winner, VEX, 2017, 2016 (3 times)
- Design Award, VEX, 2017, 2016 (2 times)
- Excellence Award, VEX 2017
- Amaze Award, VEX 2018. 2017 (2 times)
- Create Award, VEX, 2016
- Innovate Award, VEX 2018, 2017 (3 times)

PROGRAMMING

- PennApps Top Ten Finalist (Fall 2016)
- Code Day Philly Best Game Award (Spring 2016, Fall 2015)
- Represented East at Widener Programming Competition (Spring 2019)

PROGRAMMING LANGUAGES

Python, Java, JavaScript, C, and Arduino with general knowledge of C#, C++, and Lua

INTERESTING INFO

- Co-founded CHYSCI (4H Cherry Hill Youth Science Explorers)
- Competed in 2016 Team America Rocket Challenge (TARC)
- PADI Certified - Jr. Scuba Diver
- Florida Boating Safety Licensed