# Nathan Chong

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## EDUCATION

**Battlefield High School (2015-Present, GPA: 4.00 unweighted, Early College Scholar)**
**Governor's School @ Innovation Park (2017-Present)**
**George Mason University (Dual Enrolled Guest Matriculate, 2017-Present)**
**University Of Maryland (Summer, 2016)**

- ENES 100 Introduction to Engineering and Design

## AWARDS & ACHIEVEMENTS

- *Robotics-*
  *Attended VEX 2015 Virginia State Championship, ranked 8th
  *VEX Virginia State Design Award (2014) – For the thorough representation of the Design Process. This qualified the team for the VEX World Championship
  *VEX Robotics World Championship (2014) – Held in Anaheim, California; competed against 150+ teams
  *Bull Run MS Regional Design Award (2014) - This award qualified us for the VEX State Championships
- *Science Fair-*
  *Prince William/Manassas Regional Science Fair (2015) - 1st place, Physics Division
  *Participated in the 2015 Broadcom Master's program by the Student Society of Science
  *Prince William/Manassas Regional Science Fair (2014) - Honorable Mention, Chemistry Division
- *Saluting Our Stars Awards-*
  *2016 SPARK Saluting Our Stars in Academics (Science Fair), 2015 Micron Saluting Our Stars in Academics (Robotics)
- *Community Service-*
  *2015 Bronze President's Volunteer Service Award
  *Attended 2017 WestPoint LEAD conference
  *Recognized for volunteering at 2017 Haymarker Steam Expo by Congresswoman Barbara Comstock
- *Hackathon-*
  *Team Captain of Summer Hackathon sponsored by BigParser and Microsoft (2017)

## EXTRACURRICULAR ACTIVITIES

- ILITE Cyber Defense Team (Secretary and Ubuntu Co-lead, 2015-Present) – Competed in CyberPatriot National Youth Cyber Defense Competition. Secured Ubuntu 14+ operating systems.
- ILITE FRC Robotics (2017-Present) – Member of the programming sub-team. Programmed an innovative robot for the FIRST Robotics Competition
- National Honor Society (2017-Present)
- Mu Alpha Theta Math Honor Society (2017-Present)
- SeaPerch Robotics (2016-2017) – Designed and built an underwater robot
- VEX Independent Robotics Team (Lead Programmer, 2015-2016)- Programmed, designed, and created CADs of a competitive VEX robot
- Bull Run Robotics 1489 (2012-2015) – Programmed and built various VEX robots
- GHBLL Baseball (2008-Present)

## JOB & COMMUNITY SERVICE EXPERIENCE

- Bull Run Robotics Club Volunteer (27 hours) – Mentored students as they designed and programmed VEX robots
- INOVA Hospital Volunteer (23 hours)
- ILITE Programming Summer Camp (12 hours) – Taught Scratch programming with Finch robots to elementary students.
- Tutor for a variety of courses (200+ hours, intermittent)
- Building computers for friends and family (Variable)
- FRC Robotics Competitions Volunteer (20+ hours)

## SUMMER ACTIVITIES

- CTY Carlisle @ Dickinson College – Accepted into Johns Hopkins Center for Talented Youth summer program. Learned fundamentals of electrical engineering. Built a solar powered roller, designed a rocket launching mechanism.
- MMSS @ University of Michigan (2017) – Accepted into University of Michigan's Math and Science Scholar program. Learned introductory graph theory under the mentorship of Dr. Douglas J. Shaw.
- TYS @ University of Maryland (2016) – Accepted into University of Maryland's Terp Young Scholars program, took a 1 credit class, ENES 100: Introduction to Engineering. Learned fundamental principles of physics and engineering. Built a robotic rescue rover that utilized an Arduino micro controller and various sensors.
- SEP @ University of Virginia (2016) – Accepted into University of Virginia's Summer Enrichment Program. Learned basic game theory and statistics.
- SEP @ University of Virginia (2015) – Accepted into University of Virginia's Summer Enrichment Program. Took an introductory architecture and design course. The course concluded with constructing a cardboard building.
- SEAP ONR Apprentice (2018) – Accepted as a research fellow at the NRL.

## SPECIAL SKILLS AND INTERESTS

- Programming Languages- Java (3 years), RobotC (3 years), Bash Scripting (1 year), Python (1 year), Arduino (1 year)
- Soldering & Breadboarding – Intermediate level
- Git Version Control
- Interested in web development, mobile development, and machine learning