<https://adityabora2015.wixsite.com/mysite> 678.435.7303 adityabora2015@gmail.com

**Aditya Bora**

**EDUCATION**

**Johns Creek High School, Johns Creek, GA**   **Class of 2021**

**GPA:**  4.0 (**Weighted Average:** 101.8) **ACT:** 35 **APs**: Government, CS Principles, Physics 1, Physics C, BC Calc, Chemistry, CS A, English Language (5’s) Subjects Tests: Math 2 (790) 12/2018; Physics (790) 8/2019

**ACADEMIC AWARDS & RECOGNITIONS**

9th, 10th Outstanding Science student Award – one of two recipients each year

10th Outstanding Advanced Engineering Award – sole recipients out of 50+ students

11-12th National Honor Society

11-12th National Science Honor Society

9th -12th Mu-Alpha Theta National Mathematics Honor Society

11th Integrity, Service, & Excellence Award – sole recipient for excellence in extracurriculars

**EXTRACURRICULARS & RECOGNITIONS**

**Johns Creek High School (JCHS)**

 11th **Presidential Service Award** – 200+ hrs of service annually

 9th-12th **Gladiators Robotics, Programming Director (10th); President (11th, 12th)**

Led team to first regional championship and first state championship qualifying (3rd place)

Won two Innovation in Control Awards and quarter finals at World Champion Qualifiers

9th **Founder, First Lego League Team at Dolvin Elementary** - taught basic design/programming;

 led team to 1st place win in robotics performance and overall win at regionals

9th-12th **Future Business Leaders of America, member** – Community Service Project (1st place, State)

10th-12th **Himalayan Children’s Charities, Youth Board Member** – Led Fundraisers to raise over 5000$.

9th-12th **Young Men Service League** – member

11th  **Varsity Tennis**

9th, 10th **JV Tennis, MVP** (2x regional champions)

ENGINEERING EXPERIENCES & RECOGNITIONS

10th-12th **Chief Science Officer** – international program selecting STEM student ambassadors

 **Northeast GA Schools (10th)** – one of two ambassadors selected from 20 Northeast Georgia applicants across Georgia

 **International Chief Science Officer (GA)** – selected as one of two GA students to attend the International Summit; advocated for students’ representation in science policy development at the Office of Science/Technology at the White House

10th-12th **Designer/developer of engineering products** to assist community:

 App to trigger face-touching alert due to COVID-19 pandemic (11th)

 Wearable to help reduce stimming behavior in autistic patients (11th)

 Automated Recycling Sorter using computer vision (10th)

 Motorized wheelchair training system for high school student with Autism (10th)

 Autonomous shoe lacing system to help patients with limited motor functions (9th)

**SUMMER EXPERIENCES**

**RSI, MIT** – selected as one of two delegates from the state of Georgia for the most prestigious STEM summer program in the world. Developed an eye tracking system for a novel holographic display for use in concussion testing. (Summer 2020)

**Governors Honors Program, Engineering**  **(4 weeks, Summer 2019)**

Chosen as a sophomore for this highly selective residential program funded by the state of GA for talented/gifted students representing various disciplines. Developed a device which sifts through recyclables and sorts them using computer vision.

**Computer Vision Intern, Software Automation**   **(4 weeks Summer 2019)**

Developed a computer vision algorithm for use in the automation of clothing production using advanced texture segmentation techniques in OpenCV and python

**Research Internship (Interactive Media Technology Center), GA Tech (Summer 2018)**

Assisted capstone engineering professor conducting studies on the social effects of wearable technology

**Himalayan Children’s Charity, volunteer (2 weeks, Summer 2018)**

Traveled to Nepal to introduce engineering concepts to rural schools and boys’ orphanage; gave presentation on Google products for school projects

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**ADDENDUM**

**Awards**

2X Georgia Science and Engineering Fair, Grand Award (2019,2020) – awarded to 8/300+

2X Best in Category Robotics and Intelligent Machines (2019,2020)

2X Georgia Student Technology Fair 1st Place (2017, 2020)

2X Alternate Finalist International NASA Conrad Challenge – top 10/75 projects (2019, 2020)

Congressional App Design Challenge 2nd Place (2020)

Bright spark Innovation Challenge Best High School Project and 500$ cash prize (2019)

MathWorks Modeling Challenge Honorable Mention, 1000$ prize (2020) – top 4% - 22/760 submissions

Intel Excellence in Computer Science Award and 200$ case prize(2019)

Yale Science and Engineering Award (2020)

Naval Science Award (2018)

Fulton County Technology Fair, 2nd place (2019)

Fulton County Science and Engineering Fair, 3rd place (2019)