

## Note: Extreme Resume Example

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### EDUCATION

#### Carlsberg Academy – Carlsberg, VA (2014 – 2018)

- 10<sup>th</sup> grade:
  - GPA (three-term average): 94.27, three-term high honors
  - AP Courses: AP Chemistry (5), AP Chinese (Chinese V) (5)
  - Other courses: Defining Literary Traditions (English), Topics in Western Civilization (History)
  - Online/self-studied courses: AP Microeconomics (5), AP Macroeconomics (5), Machine Learning
- 11<sup>th</sup> grade:
  - GPA: 95.83, high honors
  - AP Courses: English (American Identities) (5), AP Physics C (5), AP Calculus BC (5), AP Studio Art (Photography) (5)
  - Post-AP Courses: Chinese Tutorial
  - Other courses: United States History
  - Online/self-studied courses: AP Computer Science A (5), AP US History (5)
- 12<sup>th</sup> grade:
  - GPA (fall term): 96.77, high honors
  - AP Courses: AP Psychology (5), AP Micro (5)/Macro (5), AP Calculus BC (5), AP Studio Art (Photography) (5)
  - Post-AP Courses: Chinese Tutorial
  - Other courses: United States History

#### Standardized Testing

- ACT: 35 (English: 35, Math: 36, Reading: 36, Science: 34)
- AP Exam Results: all 5's (AP Scholar w/Distinction Award)

#### International School of Beijing – Beijing, China (2007 – 2013)

- High School Courses: Biology I, Chemistry I, Physics I, Advanced Geometry, English, Asian Studies, Film, Art I, Chinese Neo-Native II
- Grade 9 average GPA: 4.11 (unweighted)

### AWARDS AND HONORS

- **Mathematics**
  - AMC 10 (American Mathematics Contest 10): Distinguished Honor Roll (1%), school winner (9<sup>th</sup> grade)
  - AIME (American Invitational Mathematics Examination) participant (9<sup>th</sup> and 10<sup>th</sup> grade)
  - HMMT (Harvard-MIT Mathematics Tournament): team 29<sup>th</sup> out of 134 teams, individual 158<sup>th</sup> out of 800 participants (11<sup>th</sup> grade)
  - On Leaderboard in New England Math League, best in DA, #31 among all individual contesters (10<sup>th</sup> grade).
  - Virginia Association Math League (VAML): school got the 6<sup>th</sup> place (10<sup>th</sup> grade)
  - Interstellar Math Contest; 1<sup>st</sup> place school, 2<sup>nd</sup> individual in DA school (10<sup>th</sup> grade)
  - Western Virginia Mathematics League (WVML): school got the 1<sup>st</sup> place (10<sup>th</sup> grade)
  - NEAMC (North East Asia Mathematics Competition): 5<sup>th</sup> place individual, 1<sup>st</sup> place team, 1<sup>st</sup> place math trail team, 1<sup>st</sup> place overall school (9<sup>th</sup> grade)

- **Film**
  - 2015 All American High School Film Festival official nomination – Healthy Food Systems: Carlsberg Academy (10<sup>th</sup> grade)
  - 4<sup>th</sup> Virginia Film Festival finalist - Healthy Food Systems (10<sup>th</sup> grade)
  - 2015 Virginia International Kids Film Festival nomination (10<sup>th</sup> grade)
- **Science**
  - Intel ISEF (International Science and Engineering Fair): award of excellence in Sichuan Regional Round (9<sup>th</sup> grade). Research title: “Stretchable and wearable strain sensors using super-aligned carbon nanotube (SACNT) films”
  - Participant in Google Science Fair in global competition (8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> grades)
- **World Scholar Cup (WSC)**
  - World Scholar’s Cup Global Tournament (Dubai 2013): 6<sup>th</sup> place overall team out of 200+ teams as the team captain. Covers areas including science, literature, art, music, special area, current affairs etc., and contestants were required to compete in the challenge (written test), writing, debate, and bowl.
- **Innovation**
  - Invented a tennis ball pick up machine to pick up tennis balls through remote control – obtained two China patents and a US patent – machine has gone through the 12th generation of the prototype (see below)
- **Music**
  - ABRSM (Associated Board of the Royal Schools of Music) exams: passed grade 7 piano

## ACTIVITIES AND SERVICE

### **Film; Videography** – Director; Director of Photography

- Created promotional video of the music and science programs of the International School of Beijing (9<sup>th</sup> grade)
- Created a Public Service Announcement on the importance of family love (9<sup>th</sup> grade)
- Created documentary on local food system and Carlsberg volunteer work on farms; shown at Whole School Meeting (10<sup>th</sup> grade)
- Shot a movie *Novalux* as a director of photography (student run co-curricular activity with cast and crew of over 20 people) (10<sup>th</sup> grade)
- Created a documentary, a compilation of Carlsberg stories in the form of video to showcase how Carlsberg helps its students.
- Film a variety of concerts, choirs, dances showcases and sports games (9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grades)
- Chief Media Officer for the Carlsberg Academy Green Team Robotics Team (11<sup>th</sup> grade): filmed and created videos/photos for team promotion and activities

### **Math Club** – (9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grades)

- Competed in the Mandelbrot Contest
- Competed in Interstellar Math Contest (Math Madness)
- Competed in MidAtlantic Mathematics League (MAML)
- Competed in Virginia Association Math League (VAML)
- Competed in Harvard-MIT Math Tournament (HMMT)

### **Robotics Club** – programmer (10<sup>th</sup>, 11<sup>th</sup> grades), Chief Media Officer (11<sup>th</sup> grades)

- Competed in First Technology Challenge (FTC) in Virginia Region (10<sup>th</sup>, 11<sup>th</sup> grades)

### **Science Bowl Club** – (10<sup>th</sup>, 11<sup>th</sup> grades)

- Competed in Regional Science Bowl Competition (10<sup>th</sup>, 11<sup>th</sup> grades)

### **Programming Club** – co-captain (10<sup>th</sup>, 11<sup>th</sup> grades)

- Co-founder
- Weekly meetings; curriculum instructor (Python, Java, etc)
- Competed in sCTF Tournament

### **Photography Club** – co-captain (10<sup>th</sup>, 11<sup>th</sup> grades)

- Co-founder
  - Weekly meetings; curriculum instructor
- Badminton Club**– captain (10<sup>th</sup>, 11<sup>th</sup> grades)
- Coordinated with facilities manager and the Director of Activities
  - Purchased equipment and set up badminton courts
  - Coached various students and teachers
  - Weekly meetings/practices
  - Organized tournaments
- Innov-8** – co-captain (11<sup>th</sup> grade)
- Created a website for club
  - In the process of making presentations, reaching out, and initiating projects
- Share Our Globe** –cofounder (11<sup>th</sup> grade)
- Proposed the creation of a non-profit organization aimed to explore our heritage, connect with others, and share our cultures.
  - Supported by the Carlsberg Academy Center for Global Studies (CACGC) in funding, collaboration, and outreach
- Carlsberg STEM Newspaper** – (10<sup>th</sup>, 11<sup>th</sup> grades)
- 10<sup>th</sup> grade: writer. Articles:
    - An Introduction to Carbon Nanotubes
    - An Introduction to Artificial Intelligence and Machine Learning
    - Measuring Air Quality
    - 6 Months In: A Review of the Apple Watch
  - 11<sup>th</sup> grade: Science section editor
- Student Council (STUCO)**– Freshman Public Relations Officer (9<sup>th</sup> grade)
- Organized Freshman Movie Night
  - Organized Freshman Function
  - Connected student body with administration through weekly meetings, surveys, and student input.
- Model United Nations** (7<sup>th</sup> - 11<sup>th</sup> grades)
- Dulwich International Model United Nations (DIMUN); Delegation of Maldives; Disarmament Commission
  - Malaysia International Model United Nations (MYMUN); Delegate of the United States of America; Disarmament Commission
  - The Hague International Model United Nations (THIMUN Hague); Delegate of Bosnia and Herzegovina; Special Political and Decolonization Committee (SPECPOL)
  - Dartmouth Model United Nations (DartMUN); Delegate of the Republic of Korea; Special Political and Decolonization Committee (SPECPOL)
  - Harvard Model United Nations (HMUN); Delegate of the United States of America; Economic and Social Council (ECOSOC) Commission for Social Development
- Peer tutor** – (11<sup>th</sup> grade)
- Weekly duty session in the subjects of Chinese I, Chinese II, Chinese III, Chinese IV, Chinese V, Geometry, Honors Geometry, Algebra I, Honors Algebra I, Algebra II, Honors Algebra II, Precalculus, Honors Precalculus, Chemistry I, Chemistry IA, AP Chemistry
  - Frequent and constant one-to-one meetings with peer tutees
- Yearbook Club** – photographer, editor (10<sup>th</sup>, 11<sup>th</sup> grades)
- Fall term: Photographed and edited pages: Boys Varsity Water Polo
  - Winter term: Photographed and edited pages: Boys Varsity Swimming, Girls Varsity Swimming, Boys JV Squash
- Carlsberg Newspaper: “Scroll”** – associate layout editor (10<sup>th</sup>, 11<sup>th</sup> grades)
- Helps design various layout and graphics-related elements to the monthly newspaper
- Badminton** – varsity (9<sup>th</sup> grade)
- Competed in various interscholastic competitions
  - Competed in Tri-Cities Badminton Competition
- Tennis**

- 9<sup>th</sup> grade: JV, Gold Division quarterfinalists in CAAMIS tennis competition
- 10<sup>th</sup> grade: Recreational Tennis

#### **Habitat For Humanity – (9<sup>th</sup> grade)**

- Weekly meetings

#### **RESEARCH EXPERIENCE AND SUMMER INTERN**

- Research in Computer Science and Automation Department, Tsinghua University, Beijing, China (9<sup>th</sup>, 10<sup>th</sup> grades)
  - Build a platform for learning Unmanned Aerial Vehicle (UAV) autonomous flight control with mono camera in cluttered natural environments
  - Developed and implemented machine learning methods to determine depth information with trained images collected by a laser radar and mono camera
  - Conduct testing and make adjustment to make the platform more robust
  - Participated in the 2015 Google Science Fair with the project “Deep learning for monocular and autonomous UAV flight in woods”
- Research in Tsinghua – Foxconn Nanotechnology Research Center, Tsinghua University, Beijing, China (8<sup>th</sup>, 9<sup>th</sup> grades)
  - Synthesized Super Aligned Carbon Nanotube (SACNT) strain sensors
  - Conducted experiments to test the mechanical and physical properties of the SACNT strain sensors
  - Made step counter as one application to demonstrate stretchability and flexibility of SACNT strain sensor
  - Made data gloves with strain sensors glued on as the other application – when fingers bend, the wearable sensors response appropriately by programming on Arduino, a micro control unit for demonstration
  - Prepared for the Intel International Science and Engineering Fair and Google Science Fair
- Research in Interior Building Energy and Research Center, Environment Department, Tsinghua University, Beijing, China (9<sup>th</sup> grade)
  - Collected data and analyzed the effectiveness of various air cleaners and masks in the filtration of PM2.5
  - Assisted postdocs in Tsinghua to build a standard testing system for further studying the effectiveness of air cleaners and masks
  - Wrote a report and gave a presentation at school fair in a project based learning (PBL) activity
- Research in Nuclear Medicine and Molecular Imaging (NMMI) lab in Massachusetts General Hospital (MGH), MA, USA jointed with IBM (10<sup>th</sup>, 11<sup>th</sup> grades)
  - Designed a Website and GUI for NMMI on Using Kinetic Data Analysis Model
  - Got familiar with IBM workbench platform
  - Learned Python programming language and Machine Learning methods
  - Conducted research on COPD (a type of pulmonary disease) data using machine learning methods

#### **PUBLICATIONS AND PATENTS**

- First author. *Reduction in PM2.5 Levels at the International School of Beijing Due to Induced Pressurization and HEPA (H-14) Air Filtration Upgrades*. International Indoor Air Conference, Hong Kong, July 7-12, 2014
- Obtained a China new model patent for a tennis ball pick up machine with the patent number 201320139146.5, and a China patent with the patent number 20091007113, the patent is announced in public on July 23, 2018
- Obtained a US patent for the tennis ball pick up cart with the serial number 18/2022115 and patent number US8,887,221 B2. The effective starting date of patent is on Aug. 25, 2018

#### **SUMMER ACTIVITIES**

- AMSP (Awesome Math Summer Program) (2011-2014)

- NYFA at Harvard (New York Film Academy) (2014)
- iD Tech Camps - Programming in Java, C, C++, Objective C programming on mobile device, Filming, Robots (2011-2014)
- Tennis Camp at Harvard (2014)
- Advanced Young Filmmakers camp at Maine Media Workshop (2015)
- Industrial Design Summer Intensive -- at Art Center College of Design (2015)

## **SKILLS AND INTERESTS**

- Interests: mathematics, programming, robot, science, filming, photography, drawing, design, invention, sports (badminton, tennis, etc.), and social media, etc.
- Software skills (apart from basic software):
  - Programming language skills: Java, C, C++, Objective C, Matlab, Python, HTML, Javascript
  - Creative applications: Final Cut Pro X, Adobe Premiere, Adobe Lightroom, Adobe Photoshop