

## ADAM C. CORDINGLEY

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128 Shockey Drive  
Huntington, WV 25701  
cordingleyadam19@gmail.com  
(304)-638-9199  
www.acordingley.us

### EDUCATION

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- **Huntington High School (2012 - present)**
- **Marshall University (Fall 2015 - present)** - [part time student]

### EMPLOYMENT & RESEARCH

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- **Research Assistant - Marshall University MBIC (Fall 2015 - present)**  
Working at the Marshall Univ. Molecular and Biological Imaging Center (MBIC) on a technique for forming 2D crystals with DNA origami.
- **Research Assistant – Marshall University MBIC (Summer 2015)**  
Worked at the Marshall Univ. MBIC to assist in research on growing gold nanoparticles attached to DNA origami and imaging nanoparticles using Scanning Electron Microscopy. Adam also became proficient with using the lab's 3D printer for research applications.
- **Marshall University TREK Summer Research Program 2014**  
A 6 week program allowing High School students and teachers to work with professional scientists on a research project. Adam was involved with the Chemistry department and learned to operate HPLC and ICP-AES to determine the concentration of organic and inorganic components of sunscreen. At the end of the session, Adam gave a presentation of his results.
- **Scanning Electron Microscopy research project & Sigma Xi poster presentation**  
Used Scanning Electron Microscopy (SEM) to analyze the wear on oboe reeds over time and how this correlates with tone quality. Adam presented a Sigma Xi poster for the project in spring 2014 at Marshall University.

### ACADEMIC ACHEIVEMENT

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- **Huntington High School Honors Program**  
Academic Program; for students who are academically distinguished. Long term projects are focused on academics and preparing for college and careers. Students are required to complete 100 hours of volunteer service and 100 hours of job shadowing by the end of their High School career.
- **National Science Olympiad (2015-16) – Team Co-Captain**
- **National Science Olympiad (2014-15)**
- **Math Field Day (2014-15)**
- **YSDE (Youth Science Discovery Experience) 2014**
- **WVYSC (West Virginia Youth Science Camp) 2013**
- **YSDE 2013 [Session not completed due to termination of funding for the program]**
- **GSMS (Governors School for Math and Science) 2012 – for rising 9th graders**

## **COURSE-WORK:**

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- Classes currently enrolled in (2015-16):
  - MTH 230 (Calculus/Analytical Geometry II); Marshall University
  - Computer Science 2; Marshall University
  - AP Physics 2
  - AP US Government & Politics
  - Applied Clarinet; Marshall University

## **EXTRACIRRICULAR ACTIVITIES:**

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- **VEX Robotics Competition Team (2015-16) – Co-Captain & Founder**

Adam is Co-captain and Co-founder of the HHS VEX Robotics Competition Team. Each team must build and program a robot using the VEX parts and platform, then attend competitions in which the robot is used in matches, which are games or tasks that the robot must do in order to score points. The robot is both driven by members of the team and run autonomously.
- **HHS Science Club (2014-15) - President**
- **VEX Robotics Competition Skyrise (2014-15)**
- **VEX Robotics Competition Toss Up (2013-14)**
- **Clarinet**

Taking private lessons with music professor at Marshall University.
- **HHS Japanese Club (2012-14)**

After school interest group focused on learning about Japanese Culture.
- **Western Virginia Military Academy (Civil War History Club) (6th grade – present)**

The WVMA is a youth 'living history' club. They meet once a week and learn about the military tactics and drill of the civil war period. They attend local living history events and reenactments and portray a civil war period military academy. Adam has been involved in this for years and finds it to be a historically enriching activity. They have a ranking system set up, ranking from privates to captains. They are a 'cadet run' group and leadership skills are needed to be an officer. Adam has earned the rank of Captain.
- **Budo Taijutsu Martial art (2011-15)**

Japanese Martial art practiced and developed for over a thousand years. Budo Taijutsu is a practical self-defense martial art. Adam has participated in this for about 4 years.

## **HONORS AND AWARDS:**

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- **National Merit Semifinalist (2015)**
- **AP Scholar with Honor Award (2015)**
- **Outstanding Physical Science Honors Student (May 2013)**
- **Daughters of the American Revolution Good Citizenship Award (21st May 2012).**