

Brady McDonough
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Education Pennsylvania State University, Class of 2019
Intended Aerospace Engineering and Materials Science Engineering Dual Major

Marine Academy of Science and Technology, Class of 2015
GPA 92.98, SAT 1490/2210, unranked

Activities

College

- OPERATION BLUE AND GOLD (THON Organization)
- NROTC Aviation Club

High School

- NAVAL JUNIOR RESERVE OFFICER TRAINING CORPS (NJROTC) (September 2011- June 2015)
- MAST DRILL TEAM (September 2011 – June 2015)
 - Varsity Color Guard, Armed Platoon, Inspection, Freshman Advisor, Academics
- NATIONAL HONOR SOCIETY (NHS) (November 2013- June 2015)
- TECHNOLOGY STUDENT ASSOCIATION (TSA) (September 2011-June 2014)
- OCEANIC SCIENCE BOWL (September 2011- June 2014)
- KEY CLUB (September 2011- June 2015)
- SWIM TEAM (November 2012-June 2014)
- ENVIROTHON (September 2012-June 2012)
- PHYSICS CLUB (September 2013- June 2013)

Awards

- NATIONAL HONOR SOCIETY (2013-15)
- THIRD PLACE STRUCTURAL ENGINEERING EVENT, TSA STATE COMPETITION (2012)
- SECOND PLACE PHYSICS OLYMPICS COMPETITION, CATAPULT EVENT (2014)
- THIRD PLACE DIGITAL POSTER COMPETITION, KEY CLUB DISTRICT CONVENTION (2014)

Experience

- Studied design and invention process in technology classes.
- Designed (freehand) and created with “Legos” marine motor craft suited to complete various tasks on the surface and beneath the water.
- Modeled the New York Grand Central Terminal Clock on AutoCAD.
- Modeled objects in 2D, 3D, Orthographic, and Isometric views on AutoCAD and freehand.
- Designed (on AutoCAD) and created a sand sculpture, kite, solar oven, and balsa wood bridge.
- Designed (on AutoCAD), modeled, and presented an original product to simulate the invention process.
- Designed (freehand) and built a mechanical triceratops infant emerging out of shell.
- Designed (on AutoCAD) and prototyped a functional water sampling quad-copter

Outside Interests

- Member of the Navy Reserve Officer Training Corps unit Penn State
- Sports including swimming, surfing, kayaking, ultimate Frisbee

Skills

- Technical Skills: AutoCAD, Crafting/Building, Technical Drawing, Soldering, Woodworking
- Communicative Skills: Public Speaking, Unscripted Oration, Technical Writing
- Microsoft Office: Word, PowerPoint, Excel