Brandon **Duderstadt**

COMPUTER SCIENCE · STATISTICS · ROBOTICS

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Education

Johns Hopkins University *Baltimore, MD*
MAJORS: COMPUTER SCIENCE & STATISTICS MINOR: ROBOTICS *Exp. Graduation - 06/2019*
- GPA - 3.63/4.0

Experience

Carnegie Robotics *Pittsburgh, PA*
SOFTWARE ENGINEERING INTERN *2013-2016*
- Obtained Confidential Clearance from U.S. Government
- Automated previously manual video data extraction process with machine learning script
- Designed and developed GUI elements for teleoperable robot's front end
- Performed fault isolation, root cause analysis, and repairs on autonomous robotic systems in the field

Touch+ *Baltimore, MD*
ASSISTIVE TECHNOLOGY STARTUP *2015-2016*
- Founded Touch+, an assistive technology startup focused on wearable devices
- Developed product pitch and slide deck, and presented them to win $10,000 JHTech Venture Startup Competition
- Created novel, high speed, stereo image stitching algorithms for assistive wearable device

Hampton Robotics *Pittsburgh, PA*
CAPTAIN *2011-2015*
- Managed 8 person robotics team with a path-goal approach, and led them to win 2015 Botball world championships
- Wrote algorithms for a range of tasks, including image segmentation, PI line following, and effector kinematics
- Organized after school program to teach 100+ elementary & middle school students about robotics

Leadership

Hopkins Hacker Club *Baltimore, MD*
FOUNDER & PRESIDENT *2016*
- Founded new Johns Hopkins club centered around making projects & learning practical skills
- Grew club to 30+ members by holding workshops on skills such as linux, web development, & machine vision

Eagle Scout *Pittsburgh, PA*
BOY SCOUT TROOP 17 *2011-2015*
- Planned and constructed a recycling and composting suite for my High School
- Organized countless troop events, campouts, and fundraisers as Senior Patrol Leader

Extreme Martial Arts & Acrobatics Instructor *Pittsburgh, PA*
PRO MARTIAL ARTS, WORLD FREERUNNING AND PARKOUR FEDERATION *2013-2015*
- Earned instructor certifications through Pro Martial Arts and the World Freerunning and Parkour Federation
- Developed lesson plans that are now standard practice at the Steel City Parkour and Pro Martial Arts gyms

Honors & Awards

INTERNATIONAL

2015	**1st Place**, 2015 Botball World Championships		*Albuquerque, NM*
2016	**6th Place**, Major League Hacking World Championships		*New York, NY*

DOMESTIC

2016	**1st Place - Intel Grand Prize**, BitCamp - University of Maryland Programming Competition		*College Park, MD*
2015	**3rd Place**, HopHacks - Johns Hopkins Programming Competition		*Baltimore, MD*

Technical Skills

Python ★★★	Java ★★★	Linux ★★★	OpenCV ★★	C++ ★★	Flask ★★
Latex ★★	G.I.M.P. ★★	HTML ★★	CSS ★★	Javascript ★	