Tarun Punnoose

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EDUCATION

TJHSST

JUNIOR

Expected Jun 2016 | Alexandria, VA ACTIVITIES

- Excelsior Aerospace Club
- Advanced Rocketry Team
- Rocketry Club
- Science Olympiad
- Hackathons (HackRU at Rutgers, yHack at Yale, and MHacks V at UMich)
- Latin Honor Society

COURSEWORK

HIGH SCHOOL

- AP BC Caclulus
- AP Physics C
- Energy Systems 1 and 2
- Digital Electronics
- Analog Electronics
- AP Computer Science (Score: 5)
- AP Chemistry (Score: 5)

SKILLS

GENERAL

- Aircraft and Multirotor Design
- Analog Electronics
- Digital Electronics
- HAM Radio License

PROGRAMMING

- Java
- (
- Perl
- JavaScript
- Python
- HTML
- CSS
- Arduino

CAD

- AutoCAD
- SolidWorks

EXPERIENCE

UDVAR HAZY AIR AND SPACE MUSEUM | VOLUNTEER

Oct 2013 - Present | Chantilly, VA

- Educate the public about aeronautics and space
- Engage visitors with hands-on activities

US NAVAL OBSERVATORY | ASTRONOMICAL APPLICATIONS INTERN

Jun 2014 - Aug 2014 | Washington, DC

- Developed and tested astronomical data calculators for the data services page
- Completely remade the Phases of the Moon Calculator and the Complete Sun and Moon Data for One Day services
- Made these two data services into APIs that return JSON
- http://bit.ly/AAMoonPhase and http://bit.ly/AARiseSet
- Used 6" refracting telescope to measure sunspot number for AAVSO

TJ EXCELSIOR AEROSPACE CLUB | Co-President

Sep 2014 - Present | Alexandria, VA

- Lead club in aerospace related competitions, projects, and outreach activities
- Lead an ambitious initiative to launch a UAV to near space: Project SOAR
- http://bit.ly/ExcelsiorAerospace

ADVANCED ROCKETRY TEAM | PAYLOAD DESIGN LEAD

Sep 2014 - Present | Alexandria, VA

- Design an autogyro payload for a rocket that goes past 1,400 ft
- Go through full design process with PDR, CDR, and launch

TJ SCIENCE OLYMPIAD | TREASURER

Sep 2014 - Present | Alexandria, VA

- Raise money for the club to pay for materials and trips to competitions
- Help create, lead, and organize the team of over 50 people

TJ ROCKETRY CLUB | WEBMASTER

Sep 2014 - Present | Alexandria, VA

• Manage club's online presence and help lead club

AWARDS

- Best Use of MongoDB at HackRU 2014
- Best Use of Virtual Reality at MHacks V
- 24 Science Olympiad Medals
- TARC National Tournament Qualifier
- Battle of the Rockets 2nd place

PROJECTS

- Designed and built quadcopter
- Leader for Project SOAR, a long range UAV for 30 km balloon deployment
- Multitude of other RC plane, multirotor, and UAV projects
- InstaFood, a Pebble app that lets you order food quickly (made at HackRU 2014 and winner of MongoDB prize)
- Meta-Drone, a quadcopter controlled using Meta-AR glasses (made at MHacks V and winner of Virtual Reality prize)