

Paul S. Schulman

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Portfolio: SchulmanAstro.com LinkedIn.com/in/pschulman

Education

M.S. Aeronautical and Astronautical Engineering, Purdue University (2020)

- GPA: 3.6
- Major area of study: Astrodynamics and Space Applications
- Minor area of study: Aerospace Systems
- Curriculum included several term-long literature review and research projects including in-part:
 - *Spaceborn Receivers for use in Space Debris Tracking with GNSS Radar*
 - *Gravimetry in Space*
 - *Simplification of Intersatellite Range for Low-Low Spacecraft-to-Spacecraft Gravimetry*

B.S. Mechanical Engineering, Michigan State University (2019)

- GPA: 3.7
- Concentration: Aerospace Engineering
- Minor: Computer Science (Python, C/C++, ARM Assembly)
- Professional Certification in Geospatial Technology

U.S. Army

U.S. Army Aviation Center of Excellence, Fort Rucker, AL, Active Duty (10/2020 - Present)

- Currently assigned as an Active Duty UH-60M Black Hawk flight student
- Have previously completed the UH-72 Lakota Initial Entry Rotary Wing course
- Academic instruction has included hydraulics and control systems, automatic flight control and stability systems, engine and rotor systems, avionics, and rotorcraft aerodynamics.

Michigan Army National Guard, Grand Ledge, MI, Reserve Status (04/2015 - Present)

- C Company, 1-147th Aviation Battalion (2018 - Present)
 - Platoon Leader responsible for managing approximately 20 UH-60M maintainers and pilots.
- 1433rd Engineering Company (SAPPER), 507th Engineering Battalion (2015 - 2018)
 - Assigned as a Cadet shadowing Combat Engineer Platoon Leaders.

Michigan State University Army ROTC, East Lansing, MI (01/2015 - 05/2019)

- Cadet S3 Battalion Operations Officer in charge of planning and developing training for battalion of over 200 cadets
- Ranger 1 extracurricular participant and Recruit Training Officer responsible for participating in and leading training in high-stress leadership tactics

Awards

NIU Unmanned Systems Award
German Armed Forces Proficiency Badge
Norwegian Foot March Badge
Distinguished Military Graduate

Completed Training Schools

Survival-Evasion-Resistance-Escape (2021)
Sapper Leader Course (2018)
Air Assault School (2017)

Employment

GE Aviation Systems - Electrical Tester and Analyzer, Grand Rapids, MI (10/2019 - 10/2020)

- Responsible for testing, analyzing, debugging, and certifying production avionics under various environmental conditions.
- Position required regular use of test equipment including temperature cycle chambers, X-ray microscopes, thermal imaging cameras, and oscilloscopes.

MSU Smart Microsystems Laboratory - Research Assistant, East Lansing, MI (12/2016 - 08/2019)

- Assisted in research and development of robotic systems with unique control methodologies, particularly in the fields of soft robotics, bio-inspired robotics, and aquatic robotics.
- Involved projects included a soft robotic glove and an autonomous active river drifter, motorboat, sailboat, and ROV.

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Employment (cont.)

Fraunhofer-MSU Center for Coatings and Diamonds - Research Intern, East Lansing, MI (08/2016 - 12/2016)

- Designed and modeled research equipment, products, and facilities for MSU and Fraunhofer faculty and customers conducting research in plasma-applied diamond coatings.

General Motors - Manufacturing Intern, Delta Township, MI (05/2016-08/2016)

- Studied paint defects to define systematic issues in and explore solutions for a 76-unit robotic arm paint system.

Extra Curriculars

MSU Rocketry Team - Founding Member (2017 - 2019)

- Lead investigator in development of an oxidizer injector plate produced with titanium additive manufacturing.
- Lead design, simulation, and construction of carbon fiber fins on a Class I rocket.
- Assisted in design and build of a Class I rocket which placed 12th overall out of 129 Teams at the 2018 Spaceport America Cup.

MSU Unmanned Systems Team - Co-Captain (2014 - 2019)

- Assisted in the development of a hybrid fixed wing UAV with VTOL capabilities and an autonomous air-dropped ground vehicle.
- Assisted in development of an autonomous quadcopter which competed in

MSU Formula Race Team - Chassis Team Member (2014 - 2015)

- Assisted in design, simulation, and construction of the carbon fiber vehicle chassis and aerokit.

Licenses and Certifications

Certified IPC Specialist w/ J-STD-001 (electrical manufacturing) and IPC A-610 (electrical inspection)

FAA Private Pilot License (Airplane Single Engine Land)

FAA Remote Pilot License

FCC Amateur Extra Class Radio License

SSI Open Water Diver