

Matthew D. Foreman

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EDUCATION *Bachelor of Science, Electrical Engineering* Dec 2018
Washington State University, Pullman, WA

RELATED COURSEWORK *Electronics* - Fundamental device characteristics including diodes, MOSFETs and bipolar transistors; small- and large-signal characteristics and design of linear circuits
Electrical Circuits I/II - Linear circuit analysis; models of electric components; state space analysis, Laplace transforms, network functions, frequency response, Fourier series
Electrical Engineering Lab - Experiments in electrical circuits, measurements and electronics, principles of measurements and measuring instruments
Microprocessor Systems - Microprocessor system architecture, instruction sets, and interfacing; MIPS Assembly
Data Structures - Advanced programming techniques: data structures, sorting and searching; C/C++

SKILLS SMD Soldering/Rework, Microcontrollers, PCB Routing and Design, 3D Design, Public Speaking

PROFESSIONAL EXPERIENCE **Electrical Engineering Consultant** May 2016-Jul 2017
OptoKnowledge Systems, Inc, Los Angeles, CA

- Designed and implemented 'multiple UAS/single computer' prototype platform
- Built, maintained, and operated prototype airframes
- Worked virtually unsupervised at satellite location while maintaining all deadlines

R&D Engineering Intern Mar 2015-Jul 2016
Digilent Inc, Pullman, WA

- Participated in design of new products
- Designed test equipment and software for new products
- Facilitated engineers with daily tasks

Teaching Assistant Jan 2015-May 2015
Microprocessor Systems, WSU

- Engaged and taught students during lab times
- Graded and provided feedback to students on quizzes and assignments

Undergraduate Research Jun 2014-Jul 2017
Intelligent Robotics Learning Laboratory, WSU

- Operated multi-rotor hardware for use in autonomous research
- Performed necessary adjustments and maintenance to ensure equipment efficiency
- Learned proper operating procedures to ensure equipment efficiency and safety

Military Logistics/Supply Technician Feb 2008-Aug 2013
Active Duty - United States Air Force

- Supervised satellite work centers, enforced compliance of operating parameters
- Ensured proper procurement and handling of \$16+ million dollars of essential jet aircraft parts
- Confirmed accurate storage/handling of high security assets
- Verbally briefed senior management daily on status of asset procurement

LEADERSHIP / ACTIVITIES **Treasurer**, WSU Robotics Club Aug 2015-Jul 2016
Vice President, WSU Robotics Club May 2014-Aug 2015

Taught lessons on 3D modeling, microcontrollers, circuit design, and soldering
Team mentor for Battle Robots project
WSU 'Hackathon' 2015, Finalist
Helped host Girl Scouts outreach events (Fall 2015 and 2016)