

Dillon Woodland

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Education

M.S. Computer Science, University of Southern California, Los Angeles CA, Aug 2022-May 2024

- GPA: 3.71/4.0
- Department of Defense SMART Scholarship Recipient
- Coursework: Analysis of Algorithms, Web Technologies, Computer Networks, Operating Systems, Information Retrieval & Web Search Engines, Database Systems

B.S. Mechanical Engineering, Brigham Young University, Provo UT, April 2020

- GPA: 3.59/4.0
- Coursework: CAE Software Development (Grad-level), Controls, Scientific Computing
- Academic Scholarships recipient

Skills

- Software: JavaScript/NodeJS, HTML, CSS, TypeScript, Angular (framework), Bootstrap (library), Java, Android, C/C++, SQL, MongoDB, Matlab, Python, Google Cloud Platform
- CAD: Creo, Catia, Fusion 360, SolidWorks, ANSYS (FEA)
- 3D printing: Cura, Simplify3D
- Spanish: Read, write, and speak fluently

Work Experience

F-22 Software System Test Engineer, 309th Software Engineering Group, Hill AFB, Jun 2020-Aug 2022

- Support software team in development of data tools in C# (As of January 2022)
- Team Lead assisting in training and support of team members; coordinate avionics and software testing with other team leads for the integration and certification of the F-22 Operational Flight Program (OFP)
- Prepare the lab equipment for testing new software; troubleshoot the hardware & software when issues arise
- Developed a test preparation process that increased efficiency and inter-team communication

Mechanical Engineer, Perusal Technologies LLC, Layton UT, May 2021-January 2022

- Initiated startup with colleagues to develop products in defense and solar industries that received funding to buy 3D printers, laptops, and hardware/electronics for prototyping
- Mobile Standoff Autonomous Indoor Capabilities Challenge (MoSAIC) Semi-Finalists

Intern, Novatek IP LLC, A Schlumberger Company, Provo UT, Oct 2018-May 2020

- Coordinated with engineers locally, nationally and internationally to carry out research and development projects
- Directed diamond choke testing project which led to increased funding of \$100,000
- Assisted senior fluids engineer in design, 3D printing, testing, and data analysis of a turbine flow meter project

Research Assistant, BYU Mechanical Engineering Department, Provo UT, Apr 2019-Sep 2019

- Prototyped 3 vibration chairs and isometric handgrips to be used by the BYU Neuroscience Department for research in addiction and mental health
- Collaborated with professors in vibration and neurology to develop new designs and ideas

Photovoltaic Design Specialist, Blue Raven Solar, American Fork UT, Mar 2018-Oct 2018

- Created hundreds of designs and permitting documents with 95% accuracy
- Coordinated with team of 8+ members to ensure team and individual efficiency

Teaching Assistant, BYU Math Department, Provo UT, Sep 2017-Dec 2017

- Instructed students in concepts of linear algebra and multivariable calculus
- Supported the professor by giving test reviews, grading homework, and organizing the online information and grades for 30+ students

Volunteer

Local Clergy, The Church of Jesus Christ of Latter-Day Saints, Layton, UT, Jan 2022-current

- Prepare meetings and lessons for 120+ local members on a weekly basis
- Mentor 15+ local youth ages 11- 18 to be leaders in their community through service

Wolf Den Leader, Cub Scouts of America, Saratoga Springs UT, Mar 2019-June 2020

- Supported 6+ youth ages 8-9 in receiving merit badges and progressing rank