

SANDRA R. Marr

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WORK EXPERIENCE

University of Washington - Part-time Student

Team Project Experience – March 2021 - Present

- Project Lead/Project Manager
- Git Flow Lead
- Front-End Design and Development
- Back-End Support
- Testing and Debugging

The Boeing Company – Boeing Test and Evaluation

777x Test, Evaluation and Design Engineer – Everett, WA – June 2018 – Present

- Designed 50+ reaction structure, access, and counterbalance systems for Full Scale Fatigue Test.
- Drafted 100+ drawings and coordinated release of 500+ drawings.
- Conducted drawing reviews including drafting, model, and design checks.
- Reduced shop downtime by 1 month on average during fabrication and installation by redlining existing designs and drawings.
- Led workflow and schedule from concept design through to fabrication and installation on a team of 15.
- Mentored peer engineers in drafting and design efforts.
- Led cross functional teams including union mechanics in fabrication and installation efforts in support of the test setup.
- Failure Mode Evaluation and Analysis – Identified high risk items, and implemented solutions to lower potential hazards/failures during test conduct.
- Work on cross functional teams to support fuselage pressurization testing and troubleshoot during hydraulic load system pinning.
- Test Conductor for a multi-million-dollar full scale test program while maintaining configuration, site safety and improved cycle speed.

Flight Test Integrated Planning and Scheduling Specialist – Seattle, WA – 2015 – June 2018

- Product Development Lead for the military surveillance program's integrated scheduling team.
- Lead Scheduler for 15 programs.
- Led proposal development of plans and schedules for various high priority programs.
- Ownership of entire project lifecycle:
 - Schedule analysis to reduce impacts to the critical path.
 - Running weekly return to green plans to assist the managers in correctly forecasting their remaining scope.
 - Developing detailed forecast profiles used by Control Account Managers (CAMs) to conduct Estimate at Completion updates.
 - Compiling relevant cost and schedule data to evaluate monthly variances at a control account level.
- Integrated schedules across multiple international organizations.
- Led standardization of data visualization and metrics with Earned Value Management approach.
- Developed automated tools to streamline weekly schedule checks and reporting processes.
- Led the balancing of labor and non-labor resources across several large-scale programs.
- Built over 40 baseline schedules across multiple programs, all following Earned Value Management standards.

Bechtel – Nuclear, Security & Environmental Business Unit

Project Controls Engineer – Richland, WA – 2014 – 2015

- Conducted critical path analysis and ran monthly schedule metrics for project health reviews.
- Balanced resource loads in schedule.
- Led Earned Value Management standardization for weekly reporting.
- Led cross functional progress meetings to stay on schedule and identify problems.
- Implemented a new Cost and Commitment system to support reports generated for the Department of Energy contract deliverables.
- Performed monthly quality checks on imported cost data.

EDUCATION & CERTIFICATES

- University of Washington Professional Certification in Fullstack Web Development (Expected September 2021)
- University of Illinois UC, B.S. Civil Engineering – Geotech and Construction Management, 2014
- EIT Washington State - Engineer in Training Certificate, 2016

TOOLS AND SKILLS

- HTML
- CSS (Frameworks such as Bootstrap and UIKit)
- Javascript (jQuery, moment.js)
- Git and GitHub
- Web APIs
- Third Party APIs
- Server-Side APIs
- Node.js
- CATIA – 3D CAD Design
- ENOVIA – Product Lifecycle Management
- STAAD Pro – Structural Analysis and Design
- OPP (Open Plan Professional) – Scheduling Software
- Primavera – Scheduling Software
- Office Suite
- Earned Value Management (EVM)
- Project Management
- Cash Based Accounting Method.