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 for two class projects, one focused on front-end development and third party API calls, the other focused on an MVC approach and CRUD operations.
- Git Flow Lead to ensure smooth integration, limited merge conflicts, and effective application deployment.
- Scrum Master
- Front-End Design and Development for various assignments and group projects. Utilized UIKit and Bootstrap for css frameworks. Standardized layout with templates, specifically using Express Handlebars.
- Back-End Design and Development for various assignments and group projects. Developed applications through Node.js and associated npm packages. Implemented web servers using express. improved user interaction with MySql and MongoDB.
- Testing and Debugging using Jest and modeled data structures.

The Boeing Company – Boeing Test and Evaluation

Project Lead/Project Integrator – Seattle, WA – Starting August 2021

777x Test, Evaluation and Design Engineer – Everett, WA – June 2018 – July 2021
- 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
- Bootstrap
- UIkit
- Javascript
- jQuery
- Node.js
- Web APIs
- Third Party APIs
- Server-Side APIs
- Object Oriented Programming (OOP)
- Heroku
- MySQL
- MySQL Workbench
- Insomnia
- MongoDB
- Robo 3T
- Cloudinary
- Express
- NPM
- Sequelize
- Inquirer
- Nodemon
- Express Sessions
- Jest
- Handlebars
- Multer
- Dotenv
- ESLint
- Prettier
- Bcrypt
- Multer-Storage-Cloudinary
- Object Relational Mapping
- Moment.js
- Git and GitHub
- Heroku
- 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.