

Akena Sponsler, EIT

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MECHANICAL ENGINEERING (BS), MINOR IN MATHEMATICS

SEATTLE UNIVERSITY SEPT 2014 - JUNE 2018

- Mechanical Design ● Control Systems ● SolidWorks ● Composite Design
- Engineering Statistics ● Robotic Control ● Machine Shop ● Optimization

Related Experience

DASSAULT SYSTÈMES EDUCATIONAL CONSULTANT ALLOCATED TO BOEING

NOV 2018- PRESENT

EVERETT and SEATTLE, WA

- **Instructor / Subject Matter Expert for MBSE with CAMEO using SysML at Boeing**
 - Full-time, global instructor at Boeing for MBSE, an intensive 32 hour course.
 - Internationally trained ~600 Boeing systems engineers, SMEs and managers.
 - Designed next MBSE course to be taught at Boeing, managed the project.
- **Instructional Systems Designer for CATIA Composites courseware at Boeing**
 - Designed CATIA courses at Boeing, which included budgeting and project management.

DESIGN PROJECT AT SEATTLE UNIVERSITY: KENWORTH TRUCK COMPANY

SEPT 2017- JUNE 2018

SEATTLE, WA

- Engineered a motor-generator to eliminate idle fuel consumption of sleeper semi truck.
- Presented finished product to CEO and upper management.
- Designed clutched engine belt system with Solidworks.
- Project Planning: Coordinated project implementation between Kenworth and team.
- Design projected to save \$6,000 per truck per year.

SKILLS

- Mechanical Design
- Solidworks: 6 years, Finite Element Analysis, Fluid Analysis, Motion Study, Thermal Analysis.
- CATIA: 2 years experience, Composites design and manufacturing.
- Model-Based Systems Engineering with CAMEO/SysML: Instructor, Subject Matter Expert.
- Software: Matlab, C, Python, Java, SysML, HTML 5 / CSS 3.
 - Data acquisition, mechatronics, optimization, scripting, motor control, MBSE.
- Microsoft Office: Outlook, Word, PowerPoint, Excel. ~15 years experience.
 - Excel: Optimization, Statistical Analysis, VBA, Data Analysis and Presentation.
- Articulate Storyline, 2 years. Camtasia, 2 years. Adobe Photoshop, 2 years.
- FDM and SLA 3D printing: 2013-Present, Student Researcher at The Center for Nano. Chemical-Electrical-Mechanical Manufacturing Systems at UIUC
- 3 years in food service.