Akena Sponsler, EIT

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# MECHANICAL ENGINEERING (BS), MINOR IN MATHEMATICS

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| **SEATTLE UNIVERITY** | **SEPT 2014 - JUNE 2018** |  |
| * Mechanical Design
 | * Control Systems ● SolidWorks
 | * Composite Design
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| * 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 aquisition, mechantronics, 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.