JOHN DAVIS

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% GlobalBabble.wordpress.com

EMPLOYMENT

Product Development Engineer - PATH

Mov 2021 - March 2022

Seattle, WA

- Performed conceptual and detailed design of hand wash station for clinics and schools in rural, low-resource settings.
- Developed data collection tools for key informant interviews and observational studies to generate design inputs.
- Fabricated prototypes for design verification and testing.

Disease modeler - UCSD Medicine, Martin Lab

m June 2020 - Sept 2021

San Diego, CA

- Led modeling and testing for \$2.3M NIH/NIAID grant optimizing HIV prevention portfolios for people who inject drugs.
- Developed and maintained transmission models to forecast hospital resource needs and intervention scenarios for COVID-19 outbreaks.

Instructional Assistant - UC San Diego

m Sept 2018 - June 2020

San Diego, CA

- Instructed teams of 5-15 undergraduates in project-based humanitarian design program. Set objectives, facilitated discussions, created assignments.
- Supervised undergraduate instructional assistants. Led weekly meetings to communicate program objectives and monitor team progress.

Product Development Engineer - PATH

di Oct 2017 - July 2018

Seattle, WA

- Developed rapid prototyping techniques for vaccine cold chain equipment.
- Performed thermodynamic testing and analysis to improve cold chain handling procedures and to troubleshoot equipment performance.

Production Engineer - Boeing

dia Aug 2016 - Oct 2017

♥ Everett, WA

- Integrated manufacturing equipment of over \$1M into 777 production line.
- Developed manufacturing tools from concept to implementation.

EDUCATION

M.S. Aerospace Engineering (2020) University of California, San Diego

- Specialization: System dynamics, disease modeling.
- Master's Thesis: "Modeling reactive case detection for control and elimination of malaria."

B.S. Mechanical Engineering (2016) University of Washington

 <u>Semester Abroad</u>: Thailand, Cambodia, and Laos. Courses on globalization, history, and nonprofits.

VOLUNTEERING

KiloWatts For Humanity

April 2017 - Present

- Monitoring & Evaluation 'Czar.' Set M&E objectives, design data collection tools, liase with partners in Zambia.
- Optimize microgrid configurations with HOMER software.

Engineers Without Borders

₩ Feb 2020 - June 2020

• Led design ideation for drinking water storage project.

Samaky Foundation

June 2014

 Assisted English teachers in Siem Reap, Cambodia.

SOFTWARE

MATLAB

Microsoft Office Suite Google Docs Editors Suite LaTeX

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Slurm Workload Manager

