

ALAN PHAN

Mechanical, EIT

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Portland, OR



alanphan.me



experience

- 09/13 - 06/14
Portland, OR
- Hot Rod Conspiracy, LLC | Mechanical Designer**
Redesign of a Victory 106 engine to create a custom motorcycle cylinder head based on customer product specifications
- Produced full body SolidWorks model for CFD analysis
 - Performed FEA and heat transfer analysis of convective cooling fins
 - Tested flow bench of exhaust and intake for performance optimization with LabVIEW
 - Managed and documented weekly design meetings with advisor and company owner
- 09/10 - 03/14
Portland, OR
- PSU Campus Rec | Safety Instructor & Head Guard**
Taught American Red Cross CPR/First Aid courses certifying Campus Recreation employees to be rescue ready, mentored guard groups, and led in-service review sessions
- 01/13 - 06/13
Portland, OR
- Engineers Without Borders | Student Volunteer**
Fundraised to implement mechanical design of water sanitation system for the Nicaragua International Project

projects

- 05/14 - 06/14
- Solar Engineering Innovation Project**
Researched and presented on solar balloon PV-mechanical system including cost analysis of drivetrain components and operating system efficiency
- 01/14 - 03/14
- SAFER Barrier Design**
Used finite element analysis to investigate the NASCAR barrier and conducted failure analysis explicit method to simulate dynamic impact
- 09/13 - 12/13
- PSU Design Competition**
Designed a vibrational energy harvesting device tasked to collect and store energy to subsequently lift an object as high as possible

education

- June '14
- BS in Mechanical Engineering**
Portland State University
Portland, OR
ASME, EWB, American Red Cross

certifications

- November '14 Fundamentals of Engineering

skills

Abaqus FEA
AutoCAD
SolidWorks
Revit
Inventor

LabVIEW
MATLAB
R
Arduino
HTML5 / CSS

Microsoft Office
MathCAD
LaTeX
Adobe Creative