

Alan Phan

17528 NW Santiam Drive • Portland, OR 97229 • (971) 227-8876
alanvanphan@gmail.com • www.linkedin/in/alanvanphan

EDUCATION	Bachelor of Science (B.S.), Mechanical Engineering <i>Portland State University</i> Courses: Finite Element Analysis, Prototype Development, Solar Engineering, Measurements & Instruments, Thermo-Fluid Mechanics	June 2014 Portland, OR
SKILLS	ABAQUS • MathCad • AutoCAD • SolidWorks • LabVIEW • MATLAB Microsoft Office • R • LaTeX • Arduino • Revit • HTML5 • CSS	
CERTIFICATIONS	Fundamentals of Engineering (EIT) – Oregon	November 2014
EXPERIENCE	Mechanical Designer <i>Hot Rod Conspiracy, LLC</i> Redesign of a Victory 106 engine to create a custom motorcycle cylinder head based on customer product specifications <ul style="list-style-type: none">• 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• Managed weekly design meetings with advisor and sponsor	September 2013 – June 2014 Portland, OR
	Safety Instructor & Head Guard <i>PSU Campus Recreation</i> 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	September 2010 – March 2014 Portland, OR
	Volunteer <i>Engineers Without Borders</i> Fundraised to implement mechanical design of water sanitation system for the Nicaragua International Project	January 2013 – June 2013 Portland, OR
PROJECTS	Solar Engineering Innovation Project Researched and presented on solar balloon PV-mechanical system including cost analysis of drivetrain components and operating system efficiency	May 2014 – June 2014
	SAFER Barrier Design Used finite element analysis to investigate the NASCAR barrier and conducted failure analysis explicit method to simulate dynamic impact	January 2014 – March 2014
	PSU Design Competition Designed a vibrational energy harvesting device successfully; tasked to collect and store energy to subsequently lift an object as high as possible	September 2013 – December 2013
ACTIVITIES & SOCIETIES	ASME • EWB • PSU Cycling • VSA • PSU Campus Recreation American Red Cross	