

# Jonathan Harrington

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## Objective

To gain a position that will allow me to apply my knowledge of the design and manufacture of vehicles, composites, metals, and electronics, and also challenge me to grow and learn as a professional.

## Engineering Design

### Theory / Technology / Manufacturing

- Designed, tested and implemented a carbon composite crush structure that met Federal Motor Vehicle Crash Safety Standards and was included in the final design of a prototype vehicle
- 6-years hands-on experience in the theory, design and manufacture of composites, plastics, metals, and electronics
- Team Lead of the Viking 45 Hybrid team that competed in the Progressive Automotive X-Prize; finalist in competition and ultimately 6th in our division and 8th overall
- Extensive knowledge and experience in engine theory, suspension design, and vehicle dynamics

## Technology

### Software / Hands-On Experience

- VARTM, in-and-out of autoclave Pre-preg; and wet layup composite part manufacturing experience
- Proficient with and extensive experience in CATIA and Pro-Engineer
- Certified in the use of Creaform 3D handheld scanners for rapid prototyping and reverse engineering

## Quality Control

### Government Standards / Safety Testing

- Have designed, built, and destruction tested numerous automotive components
- Designed, tested and implemented a novel composite crush structure composed of unidirectional pre-preg carbon fiber honeycomb
- Familiar with lean manufacturing best practices and techniques, Six Sigma and Kaizen Q.C. methods

## Communication

### Writing / Editing / Interpersonal Skills

- Recognized for the ability to motivate others to achieve individual and team goals
- Excellent interpersonal relationship skills -- patient, diplomatic and articulate -- able to work well with people from diverse backgrounds and cultures
- Demonstrated record of high performance work standards, including attention to deadlines and quality of work

## Employment History

**Vehicle Prototype Engineer** – ZAP Electric Vehicles, Santa Rosa, CA – 2010 to 2011

**Composites Team Lead** – WWUX-Prize Vehicle Team, Bellingham, WA – 2008 to 2010

**Cashier/Sales Associate** – The Home Depot, Bellingham, WA – 2008 to 2010

## Education

Bachelor of Science in Plastics Engineering Technology and Vehicle Engineering Technology (PET/VET),

ABET Accredited Degree

Vehicle Research Institute at

Western Washington University, 2010