

Joshua Winkler, P.E.

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Work Experience

Winkler Industries, Denver, CO

December 2008 to Present

Owner/Lead Engineer

- Design Consulting
 - Solidworks CAD modeling, drawing, and FEA simulation
 - BobCAM G-code post processing
- Prototyping and Light Manufacturing
 - 4 axis CNC milling
 - Tube bending
 - TIG welding

Cripple Concepts, Denver, CO

December 2008 to Present

Owner

- Custom wheelchair components and adaptive equipment
- Disability benefits consulting
 - SSI and SSDI
 - Medicare and Medicaid
 - Work Incentives: PASS, PESS, 1619(b), Medicaid Buy-in, IWRE's, etc
- Motivational Speaking

Furniture Row Racing, Denver, CO

December 2005 to November 2008

Team Engineer

- Testing—scheduling, organizing, performing data analysis, and composing reports
 - On track
 - Chassis dyno
 - Aerodynamic: Full scale and scale model wind tunnel, coast down, and circle test track
 - Rig: 7-post shaker, K&C, Tire
- Programming
 - Excel spreadsheets, including VBA macros
 - Matlab and Simulink
- Management
 - Sought out, interviewed, and hired new employees
 - Organized and prioritized engineering projects in collaboration with other departments requirements
- Design
 - Solidworks CAD modeling and FEA analysis

OptimumG, Denver, CO

June 2004 to December 2005

Engineer/Engineering Intern

- Assisted with engineering duties for Furniture Row Racing
- Co-developed OptimumK, a kinematics design and analysis software
- Created PowerPoint slides for 3 and 12 day vehicle dynamics seminars

Computer Skills

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|--------------------------------------|---------------|---|
| • MATLAB/Simulink | • AutoCAD | • Motec: i2, ADL & ACL Manager, Telemetry Monitor |
| • OptimumK, Susprog, WinGeo3 | • Solidworks | • Pi: Toolbox |
| • Microsoft: Word, Excel, PowerPoint | • Cosmosworks | • BobCAM, GibbsCAM, SurfCAM |
| • VBA | • Algor | |

Education

University of Colorado at Denver

Denver, CO

Bachelor of Science in Mechanical Engineering – 3.51/4.00 GPA

August, 2004

Master of Science in Mechanical Engineering – 3.57/4.00 GPA

May 2005

Claude Rouelle 3-Day Vehicle Dynamics & Data Acquisition Seminar

September 2004

Claude Rouelle 12-Day Advanced Vehicle Dynamics Workshop

December 2004

Volunteering

Colorado Cross Disability Coalition—Board Member

Craig Hospital—Peer Mentor