

# Joshua Gore | Design Engineer

523 S Lakeside Ct Round Lake IL, 60037  
TEL 847 513 3649 | Email me@joshgoreworks.com

joshgoreworks.com

## Professional Summary

**Diverse and tested designer with 8 years of experience.** Unique background serving many industries, using many software platforms and filling many roles.

**Experience in design from start to finish.** Hands on experience in product development from Industrial Design, modeling, manufacturing sourcing, testing and market integration.

## Experience

### INDUSTRIAL DESIGN:

- Created conceptual hand sketches.
- Formatted concepts into PDF/PowerPoint presentations using Adobe Creative Suite.
- Worked with manufacturers, managers, marketing and engineers to create aesthetically pleasing product solutions while fitting budgetary and manufacturability requirements.
- Created 3d models for photo-realistic renderings
- Used 3d, and 2d for creation of video presentations using Adobe Creative Suite.

### DESIGN ENGINEER

#### *Equipment:*

- Designed and manufactured equipment for assembly of pre manufactured components.
- Created technical drawings for cross development between engineering departments.

#### *Consumer Product:*

- Created and developed product from conceptual stages to product launch.
- Supported product through revision changes, updates.
- Worked with independent entrepreneurs to develop, manufacture, and market product ideas or inventions.
- Worked with 3d scanning technologies to aid in the reverse engineering and fitment of aftermarket products.
- Created unique product packaging designs in the Bottling, and Thermoforming industries.
- Created sheet metal designs ranging from safes to suspended seating fixtures.

### MECHANICAL ENGINEERING

#### *Engineering support for SCCA race team:*

- Managed and operated data logging equipment.
- Worked with driver and team owner to modify race cars.
- Problem solved handling and reliability problems.
- Pre race setup and preparation.

#### *Mechanical Assemblies:*

- Created conceptual solution to dynamic complex multi faceted problems.
- Modeled concepts and sourced manufacturing for prototype.
- Tested assemblies, recorded results, created revisions.
- Integrated engineering solution into marketable product package.
- Worked within UL constraints to design cost effective solutions across multiple material and manufacturing platforms.

#### *Reverse Engineering:*

- Used graphical analysis to aid in reverse engineering.
- Used 3d scanning and mesh manipulation to create 3d models from tangible parts.
- Created manufacturing drawings from 3d scanned models.
- Updated for cost savings, and material changes existing product using 3d scanning and creative design techniques.

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## Specialty Skills

Injection Molding, Blow Molding, CNC Machining, Rapid Prototyping, 3d Laser Scanning, Reverse Engineering, Point Cloud Data Manipulation, 3d Rendering.

## Employment History

Hu-Friedy – Chicago, IL (Contract)

**Design Engineer**, 2009-Present

Description: Created associative complex 3d models of surgical dental instruments.

NEOMEK INC. – BURR RIDGE, IL (Contract)

**DESIGN ENGINEER**, 2008 to Present

Description: Used 3d scanning, and rapid prototyping to reverse engineer and design product.

ADVANTAGE PB – LONG ISLANDE, NY

**SR PRODUCT DESIGNER**, 2007 to 2008

Description: Handled all aspects of product development from start to finish

LIQUID CONTAINER – WEST CHICAGO, IL (Contract)

**DESIGNER**, 2006 to 2007

Description: Designed and engineered bottles both HDPE and PET

Simple coffee – SPRING GROVE, IL

**CEO**, 2005 to PRESENT

Description: Created brand, sourced vendors, sold coffee.

FABRICATION TECHNOLOGIES. – LIBERTYVILLE, IL

**ENGINEER**, 2005 to 2006

Description: Designed sheet metal parts and assemblies.

Pursuit Marketing INC – DES PLAINES, IL

**JR MECHANICAL ENGINEER**, 2004 to 2005

Description: Styled product, and designed electro-pneumatic assemblies

Off The Break Inc – ROUND LAKE, IL

**PRODUCT DEVELOPMENT/CEO**, 2002 to 2005

Description: Designed product and supporting brand. Worked directly with manufacturers to solve unique problems.

## Technical Proficiency

Solidworks 2002-2010

- Advanced Surface Modeling
- Assemblies
- PhotoView 360 Rendering
- FEA Specifically palletization top-load for packaging.

UniGraphics NX3/4/5

- Advanced Surface Modeling

Adobe Photoshop

Sketchbook Pro

- Created Conceptual Renders

Adobe Premier

- Video Composition and Editing

## Accomplishments

- US Patent Pending #20090283082 <http://tiny.cc/Patent>
- Lead Designer Windex 5.1L <http://tiny.cc/windex>
- Sr. Designer on sporting goods project spanning 5 months from first sketch to 10k units sold. <http://tiny.cc/KRcxa>
- Creation of Simple Coffee, Specialty coffee with unique branding, packaging, and multi vendor sourcing model. <http://www.simple-coffee.com/>
- Product design and consultation from napkin to shelf, for a best-selling Toll Pass holder <http://tiny.cc/sharepass>
- Armstrong Once N Done Floor cleaner stock bottle, also marketed as Resolution Laundry Detergent <http://tiny.cc/armstrong565>
- Lead Industrial Designer on popular Paintball Gun <http://tiny.cc/droid147>

## References

Name	Position	Company	Contact
Michael Gore	President	Three R Plastics	815-675-0844
Jim Kelley	President	Speed Unlimited Racing	630-365-2656
Michael Minor	Partner	Think Simple LLC	312 576 6767
Dr Bill McNamara	Doctor/Scientist	Chemsensing Inc.	419 203 3382