

Tim Linahon CAD Portfolio - 1989-2007

Maytag / Whirlpool is a Fortune 500 company that manufactures world class home appliances including clothes washers and dryers. They service both domestic and commercial markets around the world.



I joined Maytag in 1989 in the research and development group. I began as an R&D Drafting Technician with limited responsibilities. Over time, I took on new responsibilities and was promoted a number of times into my final position as an R&D Designer III. My main role was new product development with the main focus being lead designer for 2 new washer platforms.

Once Maytag was acquired by Whirlpool, I was assigned the lead CAD designer for new Maytag branded washers and dryer. This work used my unique ability to take existing models created by someone else and quickly and efficiently dissecting and developing new Maytag brand models.

Duties I was responsible for included:

- Creating and maintaining top level master assemblies
- Coordinating CAD workload
- Participating in weekly design meetings
- Designing and developing components using Pro/E software
- Working closely with Industrial design and engineering team to develop exterior styling
- Working closely with numerical analysis team for simulated drop tests and other analysis

Some examples of parts / assemblies I was responsible for:

- Original Neptune Outer Tub
- Eve Washer Concept
- Neptune TL Washer Top Cover & Lid
- Maytag Brand Washer on Whirlpool Platform



Tim Linahon CAD Portfolio - 1989-2007

Original Neptune Outer Tub

*Injection Molded part with aluminum bearing housing insert.
Main component in the wash system designed to support
spinner, contain water and withstand numerous forces*

- One of the first models made using Pro/E software.
- 700 feature model using a number of datum curves and complex surfaces.
- Interfaces: main shaft, counter balance weights, hoses, motor mounts and suspension struts



Challenges

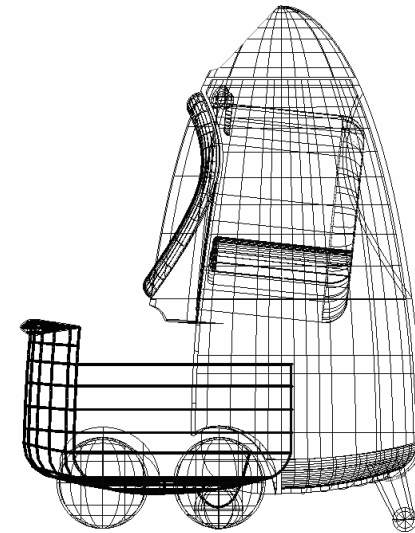
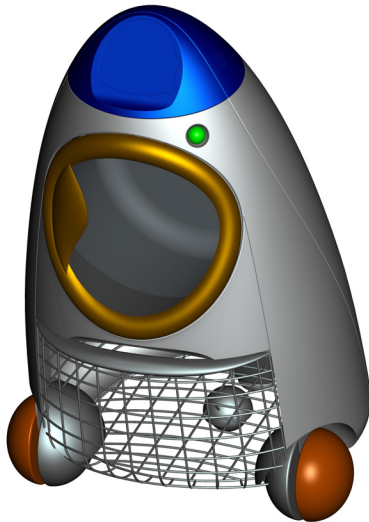
- Developed complex rear tub geometry with varying wall thickness
- Developed attachment features to interface with numerous components
- Incorporated draft features with changing parting lines

Tim Linahon CAD Portfolio - 1989-2007

Eve Washer Concept

*Advanced concept for future washing machine.
Industrial Design “Blue Sky” concept brought to life*

- Futuristic model with many datum curves and complex surfaces.
- Worked closely with model shop personnel to created “renwood”, wire and decorative parts



Challenges

- Started with very rough Industrial Design surfaces and made clean robust models
- Developed seam lines, wire basket layout and door & handle geometry

Success

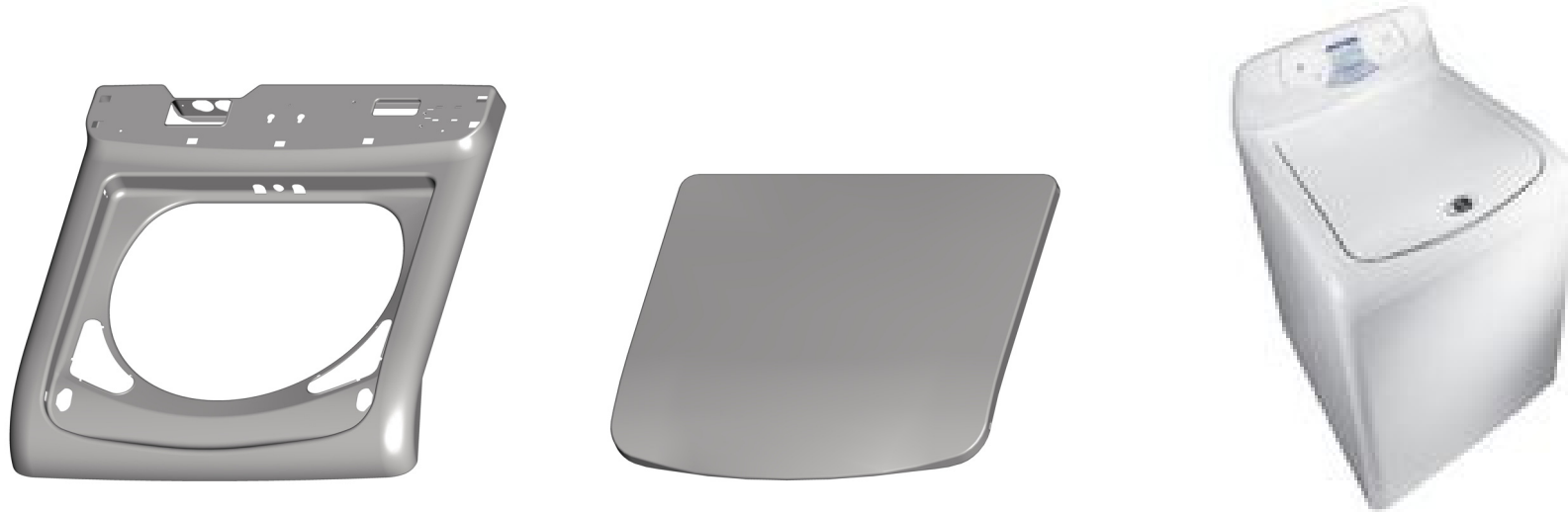
- Put on display at the Des Moines Art Center for an entire year
- Publicized across the country in many publications

Tim Linahon CAD Portfolio - 1989-2007

Neptune TL Washer Top Cover & Lid

Porcelain coated, formed sheet-metal parts used to enclose the top of a washing machine and provide a stylish access into the machine.

- Multiple feature models using a number of datum curves and complex surfaces.
- Interfaces: machine lid rotation, console and cabinet



Challenges

- Development of formed geometry that met styling needs and performed multiple functions
- Worked with washer and tooling engineer team to develop features that did not exceed manufacturing process capabilities

Success

- Awarded 3 styling U.S. patents on this project. Patent No. D484,651 - D484,652 - D485,400

Tim Linahon CAD Portfolio - 1989-2007

Maytag Brand Washer on Whirlpool Platform

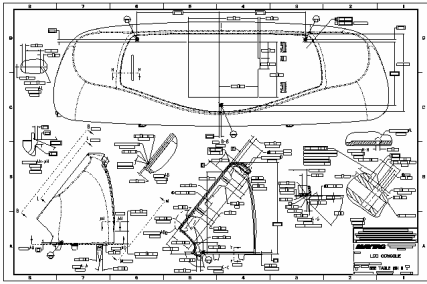
Started with existing Whirlpool washer and designed features unique to Maytag brand. Created a more rugged look and feel

- Started with Whirlpool created files and added Maytag features.
- New door handle and lens design for improved feel
- New front panel and console look to differentiate



Challenges

- Working with files made by a different company
- Using different Whirlpool systems and adopting corporate standards
- All this with aggressive timelines knowing all the while my employment was limited.



X.X 4-01
X.XX 4-02
X.XXX 4-03
PFG 4-04

SCALE: 1:000 TYPE: PART NAME: 6290170 SIZE: D SHEET 2 OF 7

