

GREAT CONCEPT!  
YOU'VE GOT THE BUDGET!  
THEY'LL STAND IN LINE FOR HOURS!

It's Time To Engineer it!

Who You Gonna Call?

**RIDE BUSTERS!!**



# A.K.A. ENGINEERING

- YOU HAVE A GREAT CONCEPT!
- IT'S VISUALLY COMPELLING!
- WE'LL ENGINEER IT:
- SERVICE LIFE GREATER THAN 20 YEARS
- INCREASED MTBF AND MINIMIZED MTTR

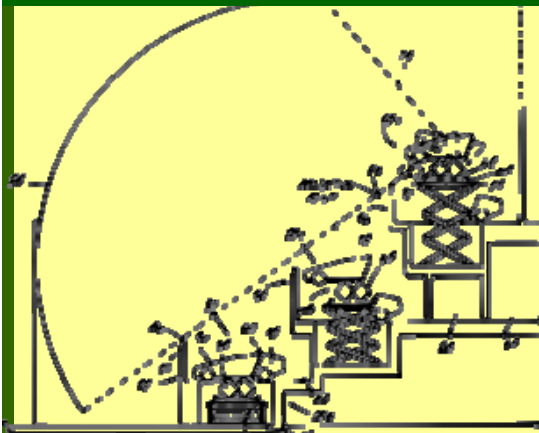
## Integrated Engineering

- Mechanical
  - Electrical
  - Controls
  - Analyses
- 
- Founded to support the high performance needs of NASA.
  - TEA member since 1999.
  - Licensed professional Engineers.
  - The latest design and analysis tools.
  - Compatible with your drawing software.



**Do All Your Pieces Fit?**





- Engineered in 1987
- Reskinned in 2007
- As hot today as when installed
- Engineered for 30 year service life

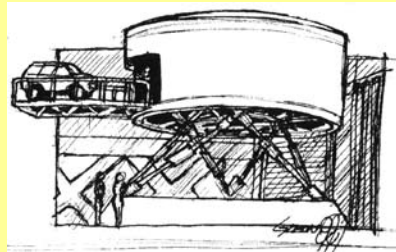
YOU'VE  
RIDDEN  
THE  
RIDE



**NOW YOU  
KNOW WHO  
ENGINEERED  
IT!**

**Supporting Your Engineering Needs**

# How We Help **YOU**

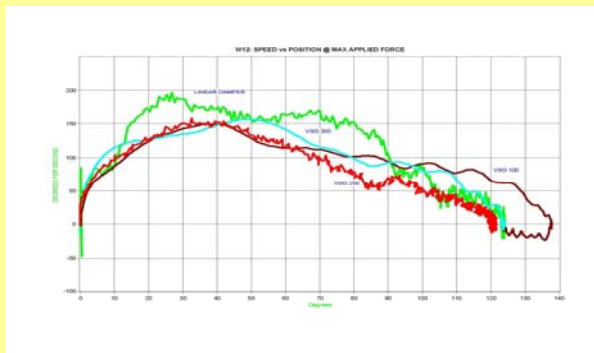


Concept Development

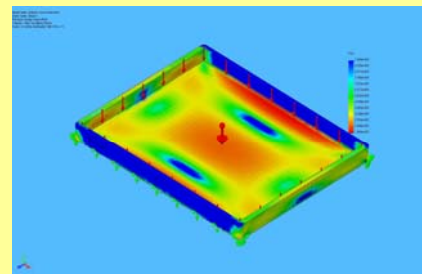


Vehicle Development and Testing

Machine Design and Kinematics



Analyses and Reports



Finite Element Analysis

**Need Automatic Doors for your Ride Vehicle?**



# PROJECTS



- Action Ride / ShowScan Theaters



- Back To The Future Attraction
- Big Thunder Mountain Railroad
- Bronx Zoo Monorail
- Caesar's Palace Race for Atlantis
- Cosmic Adventure Ride
- Dr. Doom's Fearfall

- EarthQuake Attractions
- EarthQuake, Florida
- Hong Kong Science Museum
- Horizons Pavilion, EPCOT
- Hulk, The Coaster
- Islands of Adventure Theme Park
- Jurassic Park the Ride
- Lotte World
- Matterhorn Safety Rails, Disneyland



- Miami Vice Stunt Action Show
- Motion Master Simulator Ride
- Mummy's Revenge Attraction
- NASA Flight Trainer Simulator
- Nevada Stateline Monorail

- Ride Vehicle Engineering
- Sinbad's Live Show Adventure
- Spaceship Earth, EPCOT
- St. Louis Science Center
- Star Trek the Experience Attraction
- Taipei Astronomical Museum "Cosmic Adventure"



- The Adventures of Spider-Man
- The Disneyland Monorail
- The Norway Pavilion
- Themed Safety Rails for Matterhorn Ride
- Toon Lagoon
- Turbo Tour Theater Simulator Ride
- Voyage of Sinbad The E.T. Attraction
- VR Express Capsule rides

**If it moves, we engineer it better!**





## CAPABILITIES and SERVICES

### PROJECT MANAGEMENT

- Concept Development
- Facility Interface
- Permit Coordination
- Hardware Design Reviews
- Software design Reviews
- Integration and Test
- Installation, Test, and Adjust
- Scheduling
- Budget Management

### MECHANICAL SYSTEM DESIGN

- 2-D CAD Shop Drawings
- 3-D Solid Model Design & Drawings
- Stress and Fatigue Analyses
- Thermal Analyses
- Building Loads and Interfaces
- Kinematic Design and Analysis
- Finite Element Analyses (F.E.A.)

### INTEGRATION AND TEST

- Specification verification
- Sub-system interface verification
- Performance Measurement

### FACILITY

- Power Requirements
- Manage Sub-Contractors

### TEST AND ADJUST

- Engineered solutions to field anomalies
- Fine tuning for performance and effect
- Performance Verification

### MANUFACTURING OVERSIGHT

- Manufacturing Coordination
- Material Flow Analyses
- Quality Assurance
- Acceptance Testing of Equipment

### SYSTEM SPECIFICATION and DESIGN

- System Layout
- System Requirements and Analyses
- Operational Requirements and Analyses
- Computer Program Design Specifications
- Specification Generation
- Through-Put Analysis
- Cost-Benefit Analysis
- Functional Block Diagrams
- Ride Development
- Show Development
- Failure Modes Analysis

### CONTROL SYSTEM DESIGN

- System Single Line Drawings
- System Interconnect Drawings
- Control Logic Diagrams
- Ladder Logic
- PLC and Computer Implementation
- Timing Diagrams
- Servo-System Design
- Servo-Synthesis

### INSTALLATION MANAGEMENT

- Site Management
- Team coordination
- Coordinate Installation Schedules

### COMMISSIONING

- Final sign-off for operation
- Permit Coordination and Acceptance
- Operator Training

### DOCUMENTATION

- Drawings
- Reports and Analyses
- Manuals
- Acceptance Plans and Procedure
- Specification

A.K.A. Engineering will explore your design requirements.

# Solving Your Puzzle



# CLIENTS and CUSTOMERS



- Alfa Leisure, Inc – California
- Alvarado Manufacturing Inc. -- California
- Automotive Testing and Development Services, Inc -- California
- Boshart Automotive, Inc – California
- Bronx Zoo – New York
- Camber Entertainment - United Kingdom
- Combustion Associates, Inc - California
- Dynamic Research, Inc. – California
- Eldorado Stone, LLC -- California
- Environmental Chemical Corp. -- California
- FallGuard Safety Systems - California
- Flight Avionics - England
- Forum Associates, “Race For Atlantis” - Las Vegas, Nevada
- Hydraulic Controls, Inc -- California
- Garner Holt Productions
- Illinois Institute of Technology Research Institute – Illinois
- Jack Loeks Theaters - Michigan
- Kawasho Corporation - Japan
- Kinetic Investments Pte Ltd. – Singapore
- Landmark Entertainment Group - California
- Melchers - Singapore
- Naval Air Station, North Island, San Diego, California
- NASA Ames Research Center - California
- NASA Langley Advanced Research Center – Virginia
- Norfolk Southern Railway - Georgia
- OC Incorporated- - Virginia
- Paramount Parks, “Star Trek The Experience” - Las Vegas, Nevada
- Premier Parks, Movie World – Germany
- Primm Resorts and Casinos – Stateline Nevada
- R. S. Alberts Company – Pennsylvania
- Renmark Pacific, Inc -- California
- R & S Productions - California
- Sahara Casino, “Speed World” - Las Vegas, Nevada
- ShowScan Entertainment – California
- Simuladores, S. A. de C. V. - Mexico
- Taipei Astronomical Museum
- TATA Electronic Development Services – India
- TePAPA - Museum of New Zealand
- Universal Studios

**A.K.A. Engineering Supports YOU**



## Supporting Your Engineering Needs

12515 Sterling Place  
Chino, CA. 91710

Voice **(909) 627-9725**  
Fax (909) 590-2138

[info@AKAEngineering.com](mailto:info@AKAEngineering.com)  
[WWW.AKAEngineering.com](http://WWW.AKAEngineering.com)



SolidWorks



CosmosWorks

