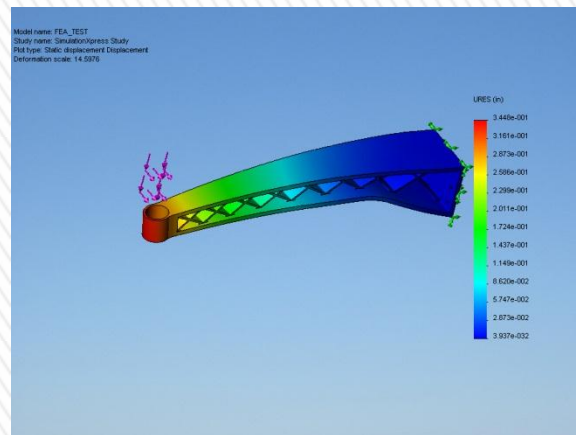
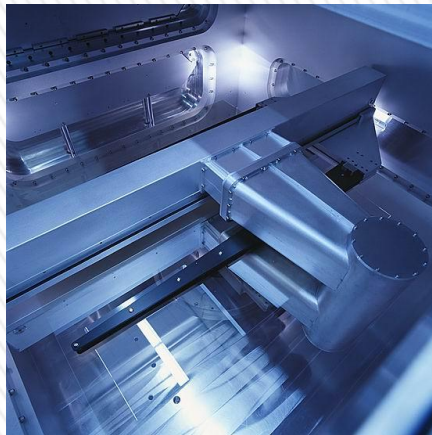




TRUE NORTH
AUTOMATION, LLC



True North Automation LLC

Project Title: True North Automation Overview

Author: Jason Bryant



Introduction

- True North was founded in 2010 by University of Maine graduate Jason Bryant.
- Jason has successfully launched products in multiple industries, most recently semiconductor robotics and medical instruments.
- Over the past 17 years Jason has held the title of Engineering Manager and Principal Engineer.
- This experience makes him understand the demands on engineering managers.

- Expert in Machine Design and Development
 - ✓ Brainstorming mechanical concepts
 - ✓ Development of requirements and specifications
 - ✓ Creation of conceptual CAD models
 - ✓ Facilitate reviews concept through detail design
 - ✓ Analyze machine elements for things like
 - Stress
 - life
 - Deflection
 - Vibration
 - Fatigue
 - Maintenance
 - ✓ Design for Manufacturability
 - Poke-Yoke
 - Tolerance stack-up
 - Alignment
 - Teaching
 - Fixtures

- ✓ Fundamental understanding of Fabrication techniques
 - Machining
 - Extruding
 - Welding
 - Brazing
 - Stamping
 - Spinning

- ✓ Automation and mechanization
 - Stepper and Servo motors
 - Encoders
 - Pneumatics
 - Hydraulics

- ✓ Detailed Drawings
- ✓ Geometrical Dimensioning and Tolerancing
- ✓ Reports and documentation
- ✓ Costed BOMs
- ✓ Project Management
 - Schedules
 - Resources
 - Material



- True North Automation has the ability to expand from one resource to five through the use of strategic partners
- True North Automation's partners are very similar companies with similar visions and complimentary skill sets
- True North Automation was created with the sole purpose of producing high quality machine design and analysis for our clients



Business Approach

- True North Automation will provide services or solutions
 - ✓ We are able to provide a fixed price quote for system development from concept through prototype testing
 - ✓ We are willing to provide services on a “time and material” basis as needed
- True North Automation is a service organization with the goal of making you successful through machine design and development



Competitive Advantage

- Value
 - ✓ We produce the right answer
 - ✓ We provide more output per dollar
- True North Automation adds value by:
 - ✓ Listening to what our clients needs and providing only the services or solutions you need
 - ✓ Keeping cost low by keeping overheads low
 - ✓ Being more efficient, by working as a small focused team