

INSPIRED INNOVATIONS, L.L.C.

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Innovative/Award-Winning Projects

- **Spray urethane in the field buildings for the military.**
- **Structural foam PE munitions packaging designed as a post-use construction material for in the field. (1)**
- **Improved mold release, flow enhanced PC for thin-walled or very large parts.**
- **High purity PC process for packaging applications. (Later used for CD and DVD production.)**
- **First 100% recycle, reinforced PC products.**
- **Low warpage PBT technology.**
- **First PC/PBT/PET alloys. Xenoy™ precursors.**
- **First volume production of PEI (Ultem™).**
- **First automotive grille opening panel. (2)**
- **First automotive headlight/turn-signal assembly.**
- **First automotive cowl vent grilles. (2)**
- **Reinforced nylon gear case housings for GE Locomotives.**
- **High speed impact test facility and methodology for bumper development.**
- **Large part vibration welding technology for bumpers.**
- **First Xenoy™ Automotive bumper system. (2)**

- **GE Bright-Stik™ fluorescent lights (extruded ballast).**
- **Large blow-molded flat panels (Zoneline™ A/C units).**
- **Validation, demonstration and mass distribution of MoldFlow™ modeling technology.**
- **First replaceable bulb halogen headlights.**
- **Permatuf™ high temperature stabilized and filled PP technology.**
- **Permatuf™ Dishwasher tubs lead to a new highly automated assembly plant.**
- **GE Light-N-Easy™, first plastic steam iron. (Same PP technology.)**
- **Wagner automatic paint roller system.**
- **Ultem™, Torlon™ and graphite fiber reinforced nylon applications in GE Aircraft Engines. (3)**
- **Ultem™ aircraft interior applications.**
- **Spray metal prototype mold technology.**
- **Cast metal prototype injection mold technology.**
- **Variegated cast skin technology for automotive.**
- **Process for two-color cast skin technology. (2)**
- **Inspired Innovations™ process development. (4)**
- **Molded-in colored stitch technology for sewn leather appearance.**
- **First PC/ABS instrument panel retainers. (2)**
- **First sprayed liquid paint mask technology. (2)**
- **First extended flat crush-curve energy management foam system for doorpanels, kneebolsters, etc. Can**

engineer crush plateau for any application by adjusting only the density of the foam. (2)

- **Directed fiber preform technology for structural parts.**
- **First high-volume structural RIM bumpers. (2)**
- **First blow-molded instrument panel upper.**
- **Flexible Bright™ grilles and exterior trim technology. (2)**
- **Flexible Bright™ wheel coating technology.**
- **Invisible passenger-side airbag door technology. (2)**
- **Integral and flip-top airbag door technology. Front, side, seat and headliner airbag applications. (2)**
- **First cast TPU skin materials and technology. (2)**
- **Low cost, spray TPU skin technology. (2)**
- **Automated side and lift-gate door modules. (2)**
- **Nano-composite thin-walled fascia.**
- **Nano-Composite exterior body panels.**
- **Structural foam nano-composites.**
- **Blowmolded large nano-composite parts.**
- **Vacuum pressure forming of nano-composite parts.**
- **Scratch-resistant nano-composite window for a motor vehicle.**
- **Nano-composite TPO and PP.**
- **Nano-composite SMC.**
- **Nano-SMC large truck front-end assemblies. (5)**
- **Nano-SMC in personal watercraft. (5)**

- **Nano-SMC Corvette body panels.**
 1. **US Army Innovation Award.**
 2. **SPE Automotive Division Awards.**
 3. **SPE Unique and Useful Industrial Product Award.**
 4. **American Product Excellence Award.**
 5. **Trade journal awards (Popular Science, Composites Manufacturing, Plastics Engineering, Trailer Boats, etc.)**