ProjectMFG
Next Generation Manufacturing Challenge

Greg Jones, Vice President, Smartforce Development, AMT
The Skills Gap

• Chronic state of ~500,000 open positions in manufacturing
• Well-documented research predicting 2.5 million open positions in ten years
• Chronic unfilled pipeline of qualified candidates + new transformational technologies
The Forecast

• Gardner Business Intelligence:
  2020 Capital Equipment Spending Survey
  • **15% increase** in spending on 5 axis vertical machines
  • **18% increase** in spending on 5 axis horizontal machines
2017 Research

• U.S. Defense Machining & Manufacturing Capability & Sustainability
• Conducted by AMT
• Conducted for OSD IBAS
Presidential Executive Order 13806

• Uncertainty of U.S. Government Budget Spending
• Decline in Supply Chain Capacity
• Deleterious Business & Procurement Practices
• Industrial Policies of Competitor Nations
• Diminishing U.S. STEM and Trade Skills
• **Change Perceptions** about Careers in Manufacturing
• **Raise the bar** of skills among machinists, welders, others
• Accelerate the pace at which local policy-makers and education administrators **Elevate Educational Programs**
Public/Private Partnership

• One-to-one funding
• Approximately $1 million/year from DOD
• Additional $1 million+/year in cash and in-kind from the industry
• A total of $5.7 million through 2020
• 5 Axis Industry-recognized Technical Standard → Credential
• Competition design
• Competition execution
5 Axis Machining + Welding

- Team competition: on the clock
  - Design
  - Programming
  - Machining
  - Welding
  - Inspection
Team make-up: 4 team members

- CTE High School
- Community College
- Masters of Mechanical Engineering
- Industry?
ProjectMFG at IMTS 2020
Questions/comments?

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