



Vanguard EMS is a leading-edge Electronics Manufacturer located in Beaverton, OR. Since 1988, Vanguard has partnered with OEM's to provide exceptional manufacturing services from the PCBA to full system level.

Vanguard has a Fortune 500 customer base and is experienced in several industries which include: Defense, Medical, Communications, Computing & Storage, Industrial, Medical and Networking.

With industry leading capabilities in the Test Department, Velocity™ group, System Integration group, and dedicated Program Management teams, Vanguard is the place where experience, alignment, and progress meet.

Manufacturing Capabilities

- 4 SMT Lines
- .4mm BGA's & 01005 packages
- Through Hole Assembly
- Proficiency in High Level Assembly & complex products including a life sustaining medical device
- Custom manufacturing solutions for customized component placing

Vanguard's Velocity™

- Quick turnkey prototyping
- Goal is to free up customer's engineers to work on new products & designs by driving cost out of product introductions
- Lead Engineer for Velocity is a Six Sigma Black Belt & EE
- Dedicated SMT line and assembly team
- Design for Manufacturing, Design for Test & Design for Supply Chain

Industry Leading Test Development Group

- Flying Probe Test
- Boundary Scan
- Functional Test (20 Technicians)
- Micro Master Test through Intel CPU's
- RMA Soldering Processes
- In-Circuit Test
- ESS (HALT & HASS)
- X-Ray
- AOI
- Thermal Shock

Customer Specialized Program Management Teams

- Provide the highest level of communication on a real-time basis

Supply Chain Management

- 5 member purchasing team
- Bar-coding system for full traceability throughout product life cycle
- Extensive BOM health analysis for component life cycle information

Significant RF Experience

- Spectrum Analyzers
- Signal Generators
- Logic Analyzers
- Table Top RF Shielding

Quality

- ISO: 9001; ISO: 13485
- FDA/cGMP/QSR compliant
- ITAR certified
- AS 9100 certified
- Cage Code 5M2D1
- Comm/Opp Sec in Progress

SMARTer Manufacturing

- Software Manufacturing package developed to perfect information systems
- Electronic Documentation to increase efficiency & planning
- Visual Indicators used to show real-time across production & programs



For more information, please contact:

- Chris Smith Senior Director of Sales Chris.Smith@vanguard-ems.com 503.735.5723
- Rachel Matthews Director of Sales, Defense & Aerospace Rachel.Matthews@vanguard-ems.com 303.842.2752
- Scott Jewell Director of Regional Sales Scott.Jewell@vanguard-ems.com 303.345.8646