



## **Monterey Technologies, Inc. Corporate Capabilities Summary**

### **Leadership Statement**

Our mission is to focus first on users. We develop functional requirements for people, as the users of technology, and to relate those requirements to the development of technology to provide a human-centered approach to the design of any technology that people use. We believe that technology should be developed to serve the needs of the human user, rather than the people being slaves to the technology.

We help our clients understand the capabilities and limitations of their users. How can a system be designed without first understanding what the users of that system are like, and what they need the system to do? We design products and systems that provide the functionality the users need and understand, not less, and not more (under, or over-specified). Our user interface (UI) designs are intuitive and easy to use, saving time and money in system design, development, and training time. We develop business processes that make people more efficient and effective. MTI has a specific focus on providing human-systems integration (HSI), human factors engineering (HFE), and Subject Matter Expertise (SME) for systems engineering and product development teams.

Our core values are doing business with integrity, rather than only being concerned with making money at the expense of our customers and users. We provide our employees with a challenging work environment and interesting technical projects, while providing a corporate culture that meets their needs, allowing our employees to provide the highest quality human engineering services to our clients.

### **Core Competencies**

**Monterey Technologies, Inc.** (MTI) is a Human-Centered Analysis, Design, and Ergonomics firm. The company, incorporated in 1984, provides products and services to Government, Commercial, and International clients. The company is headquartered in Park City, UT, with the main corporate office in Monterey, CA, and with regional offices in San Diego, CA, Seattle, WA, Minneapolis, MN, San Jose, CA, Colorado Springs, CO, and at NASA Ames Research Center, Moffett Field, CA. The company provides human-centered analysis and design services that improve human performance.



**Our specific core competencies include:**

- **Human-Systems Integration (HSI) analysis**
  - Staffing level analysis
  - Concept of Operation (CONOPS) development
  - Crew Concept Development
  - Human Engineering Program Plan (HEPP) development
- **Human Factors Engineering (HFE)**
  - Mission Analysis
  - Task Analysis
  - Functional Requirements Analysis
  - Workload / Workflow Analysis
  - Training Needs Assessment
  - Performance Measurements (MOP's & MOE's)
  - System of Systems Testing
  - Business Process Analysis
- **Human-machine interface (HMI) Design**
  - Workstation UI design
  - Information Display design
  - Crew Station Design
  - Cockpit layout design
  - Workspace Design
  - Website Analysis / Heuristic Evaluation
- **Medical Equipment Usability Testing**
  - Formative Studies
  - Summative Studies
  - Product Usability testing supporting FDA approval
- **Product Usability testing**
  - Usability laboratory testing
  - Focus Groups
  - Survey/Questionnaire Design
  - Competitive product testing & analysis
- **System Support documentation development**
  - Software Style Guides
  - User Manuals
  - Training Materials
- **Systems Engineering**
  - Independent Verification & Validation (IV&V)
  - Test & Evaluation
    - Type Acceptance Test & Evaluation (TAT&E)
    - Developmental Test & Evaluation (DT&E)
    - Operational Test & Evaluation (OT&E)



MTI performs usability testing & analysis on any type of product or system that people use. We evaluate products and systems from the user standpoint. Our user-centered analysis results in optimized user interface designs, and improved business processes. We work with your hardware, software or system design teams to develop user interfaces that increase user efficiency and productivity while decreasing training time and cost. We plan, develop, test, and implement human oriented solutions that will increase human performance and decrease your costs. Our approach to resolving problems is to first understand the human (user) issues, rather than buying technology, hoping that it will resolve issues. We identify and analyze user capabilities, limitations, and user problems, define missions, goals and objectives, conduct detailed task analyses to specifically understand what your users are required to do, and how they currently accomplish their assignments. We conduct workloads/workflows analyses to better understand team performance requirements. We evaluate the hardware and software tools provided to your users, and how they are implemented. We combine these analyses to identify problem areas and inefficiencies. We then recommend solutions to these problem areas that will make people more efficient in completing assigned work. These solutions will vary with the situation, and are tailored to the specific and unique needs of our clients.

MTI has a strong background in Crew Station and workstation design and evaluation. MTI designed a two and three person crew station for the U.S. Army's M1-A2 main battle tank, and provided the crew station analysis and human-machine interface design work for the crew stations for five of the Manned Ground Vehicles (MGVs) for the Army's Future Combat System (FCS). MTI has designed and prototyped a new AEW workstation for E-2C tactical command & control system for the team of Naval Flight Officers (NFO's) working in the Combat Information Center (CIC) of the E-2C aircraft, and has provided crew concept design and crew workstation UI design recommendations for the Australian Wedgetail AEW&C aircraft program. MTI has provided user interface designs for the FAA for Air Traffic Controller workstation design, airline cockpit automation, Remotely Piloted Vehicle (RPV) ground control station (GCS) design, and National Airspace System (NAS) design for the NextGen program. MTI has also completed analyses and user interface designs for complex satellite controller workstations for the US Air Force.

Commercially, MTI performs product design tasks, usability testing, human factors design analysis for products, focus groups, and a variety of related services for medical equipment manufacturers, pharmaceutical companies, and manufacturers of consumer electronics. Our work has included usability testing for patient self-administered products, usability testing for product packaging and product instructions, summative validation testing, product usability testing for a variety of electro-mechanical devices, and usability testing & user interface design for hand held consumer electronic devices (smart phones).



## **Monterey Technologies, Inc. Clients**

### **Government Clients**

*U.S. Army  
U.S. Air Force  
U.S. Navy  
U.S. Coast Guard  
NASA  
FAA  
Department of Transportation  
Department of Energy  
Lockheed Martin  
Boeing  
Northrop Grumman  
BAE Systems  
General Dynamics*

### **International Clients**

*Government of Australia*

### **Commercial Clients**

*Exelon Power Corporation  
Deloitte Consulting  
SAIC Consulting  
IBM  
AMGEN  
St. Jude Medical  
Innoventry  
Thomson Consumer Electronics  
QualityLogic  
Johnson Controls  
Prince Corporation  
Intel Corp.  
Hewlett Packard  
Intuit  
Motorola  
Ericsson  
Washington Mutual Bank  
VMware  
AT&T  
Glaxo Wellcome  
Atlanta Airline Terminal Corp.  
(AATC)*

## **Profile**

Monterey Technologies, Inc. (MTI) is a Veteran-Owned Small Business (VOSB) that was incorporated in the state of California in 1984. MTI is a closely-held private corporation. Robert Chamberlain serves as the company President and CEO. Joe Homan serves as the company's Chief Operating Officer, and manages finance, contracts and human resources.



## **Core Advantages**

MTI has been in business for 32 years, and currently holds a TOP SECRET Facility Security clearance. MTI has a DCAA-approved accounting system, with audited and approved labor rates. MTI's knowledge and expertise in human factors engineering (HFE) and human-systems integration (HSI) provides a significant competitive advantage to prime contractors bidding on development of new systems for DoD and other Government agencies. MTI's specific current work on developing Synthetic Vision Systems to resolve helicopter brownout problems, and on developing a unique mission planning system for military staffs above the tactical level of war provides significant partnering opportunities for prime contractors.

Commercially, MTI provides a high quality, independent source of human factors engineering and product usability testing for medical equipment and consumer electronics manufacturers to assist in complying with the Food & Drug Administration's (FDA) human factors-related product testing and evaluation requirements.

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