

**EDUCATION: The Pennsylvania State University - BACHELOR OF ARCHITECTURAL ENGINEERING**

- ABET accredited five-year degree
- Mechanical Systems Option (HVAC)
- 5-year ROTC Scholarship
- May 1996 | Engineer In Training (EIT)

**The Pennsylvania State University – PH.D. CANDIDATE, Architectural Engineering**

- Construction Management Option
  - January 2004 – Present | Currently enrolled
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**EXPERIENCE: Master Planning:**

Managed, prepared and developed multiple master planning efforts for healthcare and research laboratories including economic analysis, workload and scenario analysis (lease, own, buy), to help organizations plan their facility requirements in a proactive organized fashion. Developed U.S. Army European theater medical facilities plan for base consolidation (Efficient Basing initiatives).

**Programming & Acquisition:**

Assisted multiple organizations in developing master plans and corporate goals into coordinated healthcare facility and campus recapitalization programs spanning multiple years. Including infrastructure, space utilization, architectural, transition planning and outfitting (FFE) planning. Implemented strategies for utilizing BIM to increase information exchange. FAR compliance, contracting, and budgetary analysis. Developed multi-year corporate campus facility programs.

**Design & Construction Management:**

Integrated, coordinated and managed multiple healthcare and research laboratory projects in design and construction as an owner's representative across 8 states and 4 countries. Successfully managed development, design, acquisition and construction of \$42M in active construction and design of \$250M construction value for medical and research laboratory projects. Including BSL-3 and BSL-2 labs.

**Management & Leadership:**

Coordinated, advised and guided multiple agencies and international teams ranging from designer, builders, owners and users through complex healthcare and laboratory related facility projects. Included executive US government personnel at the SES-4 level. Medical facility liaison to the US Army Corps of Engineers. Corporate BIM initiatives coordinator. Lead multiple JCAHO compliance committees culminating in successful accreditation. Supervised 5 clinic sections, and 30 personnel.

**Database Development:**

Developed multiple relational databases to streamline healthcare logistical management (reduced medical supply turn around time by 50%), healthcare facility program and project management.

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<b>History:</b>	2008-Pres	<b>Project Manager</b> , U.S. Army Health Facility Planning Agency (Gov't Service Civilian)
	2006-Pres	<b>Graduate Student</b> , PhD Candidate, Thesis Research
	2006-2007	<b>Project Integrator</b> , U.S. Army Medical Command   Facilities Life Cycle Management Office
	2006	<b>Summer Intern</b> , CUH2A   Project Management Division
	2005-2006	<b>Health Facility Project Officer</b> (Captain, U.S. Army), Multi-National Forces Iraq   HQ, Surgeon's Office – Reactivation for 12 months
	2002-2005	<b>Project Integrator</b> , U.S. Army Health Facility Planning Agency
	2001-2002	<b>Project Engineer</b> , Earth Tech Inc.
	1996-2001	<b>Medical Service Officer</b> , U.S. Army <ul style="list-style-type: none"> <li>• Captain, Health Facility Planner, Europe Regional Medical Command, Germany</li> <li>• 1st Lieutenant, Executive Officer   Administrator, Baumholder Health Clinic, Germany</li> <li>• 2nd Lieutenant, Platoon Leader, 1st Armor Division, Germany</li> </ul>

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<b>SELECTED PROJECTS:</b>	\$430M	Chemical research facility and vivarium, Aberdeen, MD (Design, Acquisition, and CM)
	\$450M	Hospital Campus & Clinic Theater Relocation, South Korea (Design, Acquisition, and CM)
	100,000 sf	Coalition Theater Trauma Hospital, Iraq (Programming, Design and Acquisition)
	33,000 sf	Coalition Theater Medical Logistics & Maintenance, Blood Storage, Optical Fabrication and Administration Facility, Iraq (Construction Management)
	67,000 sf	Preventative Medicine Research Laboratory Renewal Program, Aberdeen, MD (Programming and Acquisition)
	\$138M	10-year Campus Administration and Research Facility Recapitalization Plan, Aberdeen, MD (Programming, Acquisition, Design, and Construction Management)
	\$190M	8-Year Advanced Pathology Research Facility Recapitalization Plan, Washington, DC (Programming, Design, Acquisition and Construction Management)
	79,000 sf	Health Clinic Renovation/Renewal, Baumholder, Germany (Acquisition and CM)

- COMPUTER SKILLS:**
- Microsoft Office (Word, Excel, Access, PowerPoint, Access, Visio)
  - Microsoft Project
  - Revit (Autodesk parametric design tool) – BIM Tool
  - Autodesk AutoCAD and Architectural Desk Top
  - Trace 700, Quest (DoE2) Energy Analysis Tools
- HONORS:**
- Defense Meritorious Service Medal, Army Meritorious Service Medal (2), Army Commendation Medal, Army Achievement Medal, Overseas Service Ribbon (2)
  - Allen Naugle Ethics Award
  - Pohlen Memorial Scholarship – Distinguished Architectural Engineering Student
  - Distinguished Military Student
- LECTURES:**
- American Society of Health Care Engineers (ASHE) International Conference 2003: Healthcare or Fortress, Balancing Security and Healthcare.
  - US Army Health Facility Planning Agency Annual Quality Control Training Course 2003: Quality Assurance and Control for Biological Safety Level (BSL) 3 Laboratories.
  - DoD Tri-Service Health Facilities Planning Conference 2002: Infection Control Risk Assessment (ICRA) Principles and Application in Health Care Projects.
- TRAINING:**
- Project Integrator Training Modules – developed integrated training modules for US Army Medical command for its training of facility managers, facility project management staff and project integrators.
- SPECIAL TRAINING:**
- 1998 – Joint Facility Life Cycle Acquisition
  - 1998 – Contracting Officer Representative (COR/COTR)
  - 1999 – Health Facility Acquisition
  - 2004 – DAU Acquisition 101
  - 2004 – Certified Acquisition Professional – Level 1 Facility Engineering
- PROF. ACCREDITED:**
- LEED AP
- PAPERS:**
- Journal Paper – Peer Reviewed
- Manning, R., Messner, J. (2008) "Case Studies in BIM Implementation for Programming of Healthcare Facilities," *ITcon* Vol. 13, Special Issue Case Studies of BIM Use , pg. 246-257
- Proceedings
- Manning, R., Messner, J. (2007) "Investigating Delivery, Procurement And Contracting Relationships In Healthcare Facility Construction," *2007 ASCE/CIB Construction Research Congress*, May 6-8, Grand Bahama Island, Bahamas
  - Garriss, K., Guillory, J., Manning, R. & Sundar, S.S. (2007). "Does interactivity serve the public interest? The role of political blogs in deliberative democracy." *The Association of Educators of Journalism and Mass Communication (AEJMC)*, August, Washington, DC.
  - Zolotov, A., Manning, R., Messner, J. (2005) "Advanced Visualization in AEC Education," *The Future of the AEC Industry Conference, Building Futures Council*, March, Las Vegas, NV
- CLEARANCE:** DoD Secret
- REFERENCES:** Available upon request.