

Curriculum Vitae – Theodore Cohen, MS, CCE, FACCE

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Educational Background:

M.S. Biomedical Engineering	California State University, Sacramento Sacramento, California	1978
B.S. Electrical Engineering	University of California, Los Angeles Los Angeles, California	1972

Certification:

[Certified in Clinical Engineering](#) – Healthcare Technology Foundation

Professional Experience:

07/2015 to present: [B. H. Barkalow & Associates, LLC](#), Newaygo, MI. **Clinical Engineering Expert Consultant** for hospitals, medical device companies, legal firms, insurance carriers, Federal Food and Drug Administration (FDA), and other biomedical engineering consultants or firms.

1978 to 2015: [UC Davis Health System](#), Sacramento, California. **Manager**, Clinical Engineering Department. Responsible for medical technology planning, selection, implementation, incident investigations, and management of installation, repair and maintenance for a 35 member Clinical Engineering department. Worked as the Clinical Engineering manager for UC Davis Health System for more than 36 years and in the last several years was responsible for the support of \$250 million worth of medical equipment.

2007 to 2015: [American River College](#), Sacramento, California. **Adjunct Professor**, Electronics Technology (Biomedical Equipment Technology). Work included co-developing a BMET education program for the local community college district and co-teaching the introductory BMET course and a series of short courses for 8 years.

1972-1978: United States Air Force (civilian), McClellan AFB, Sacramento, CA. **Electronics Engineer** (Computer Systems). Work included developing various hardware, software and simulation techniques using mainframe and min-computers and automated test equipment systems for the test and repair of F-111 aircraft avionics.

Professional Affiliations:

Member, [Association for the Advancement of Medical Instrumentation](#) (AAMI)

Member, [American College of Clinical Engineering](#) (ACCE)

Member, [California Medical Instrumentation Association](#)

Professional Activities:

American College of Clinical Engineering
Co-editor of [ACCE News](#)

Association for the Advancement of Medical Instrumentation
Subject Matter Expert for the [AAMI HTM Benchmarking Solutions](#) and AAMI [HTM Levels](#) projects (2009 to present)

Association for the Advancement of Medical Instrumentation
Member of the [Biomedical Instrumentation and Technology](#) Editorial Review Board (2014-present)

Recognition and Awards:

Fellow of the American College of Clinical Engineering (FACCE)
American College of Clinical Engineering, Plymouth Meeting, PA

Outstanding Management and Technology Paper, 1995, for his article “Benchmark Indicators for Medical Equipment Repair and Maintenance” published in *Biomedical Instrumentation and Technology*, the journal of the Association for the Advancement of Medical Instrumentation

Lifetime Achievement Award from the American College of Clinical Engineering, 2008

Publications:

Cohen T (2015) Computerized Maintenance Management Systems, in *A practicum for healthcare technology management*. Arlington, VA: AAMI, 139-162.

Cohen T (2014) The basics of CMMS. *Biomedical Instrumentation & Technology: BI&T*, 2014 Mar-Apr; 48(2), 117-121.

Cohen T, Baretich MR, Painter FR (2014) *HTM levels guide*. Arlington, VA: AAMI.

Cohen T (2011) Staffing metrics: a case study. *Biomedical Instrumentation & Technology: BI&T*, 2011 Jul-Aug; 45(4), 321-324.

Cohen T (2010) AAMI’s benchmarking solution: analysis of cost of service ratio and other metrics. *Biomedical Instrumentation & Technology: BI&T*, 2010 Jul-Aug; 44(4), 346-350.

Wang B, Furst E, Cohen T, Keil OR, Ridgway M, Stiefel RH (2006) Medical equipment management strategies. *Biomedical Instrumentation & Technology: BI&T*, 2006 May-Jun; 40(3), 233-237.

Cohen T, Ellis WS, Morrissey JJ, Bakuzonis C, David Y, Paperman WD (2005) Safe use of cellular telephones in hospitals: fundamental principles and case studies. *Journal of Healthcare Information Management*, 2005 Fall; 19(4), 38-48.

Cohen T (2004) Medical and information technologies converge. *IEEE Engineering in Medicine and Biology Magazine*, 2004 May-Jun; 23(3), 59-65.

Cohen T, Ward C (2004) The integration and convergence of medical and information technologies, in Dyro JP (ed.) *Clinical Engineering Handbook*. Boston, MA: Elsevier Academic Press.

Cohen T, Crum N (2004) Computerized Maintenance Management Systems, in Dyro JP (ed.) *Clinical Engineering Handbook*. Boston, MA: Elsevier Academic Press.

Cohen T (2004) Picture Archiving and Communication Systems (PACS), in Dyro JP (ed.) *Clinical Engineering Handbook*. Boston, MA: Elsevier Academic Press.

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- Cohen T (2003) Striving for “end-to-end” knowledge to support networked medical systems. *Biomedical Instrumentation & Technology: BI&T*, 2003 Nov-Dec; 1(Suppl), 38-39.
- Cohen T, Stiefel RH (2003) *Computerized Maintenance Management Systems for clinical engineering*, An AAMI Management Information Report (MIR) book, Second edition. Arlington, VA: AAMI.
- Cohen T (2003) The future of clinical engineering: technology that enables improved patient care. *Biomedical Instrumentation & Technology: BI&T*, 2003 Mar; 37(2), 113-117.
- Cohen T (2002) Leadership challenges in clinical and information technology services. *Biomedical Instrumentation & Technology: BI&T*, 2002 Mar; 36(2), 123-126.
- Cohen T (2002) ACCE body of knowledge survey. *Journal of Clinical Engineering*, 2002 Fall; 27(4), 298-299.
- Cohen T (2001) Results of the ACCE body of knowledge survey. *ACCE News*, 2001 May; 11(3).
- Cohen T, Cram N (2001) Computerized Maintenance Management Systems. *Journal of Clinical Engineering*, 2001 Summer; 26(3), 200-211.
- Cohen T (1999) Clinical engineering at UC Davis Medical Center. *Journal of Clinical Engineering*, 1999 Nov-Dec; 24(6), 344.
- Cohen T (1998) Validating medical equipment repair and maintenance metrics, part II, results of the 1997 survey. *Biomedical Instrumentation & Technology: BI&T*, 1998 Mar-Apr; 32(2), 136-144.
- Cohen T (1996) Benchmark indicators for medical equipment repair and maintenance, current status and future goals. *Biomedical Instrumentation & Technology: BI&T*, 1995 Jul-Aug; 29(4), 308-321.
- Cohen T (1995) Data-driven medical equipment maintenance. *Environment of Care News*, 2000 Mar-Apr; 3(2), 6-7.
- Cohen T (1995) Computerized maintenance management systems: how to match your department’s needs with commercially available products. *Journal of Clinical Engineering*, 1995 Nov-Dec; 20(6), 457-468.
- Cohen T (1995) Should clinical engineering departments charge for their services? *Biomedical Instrumentation & Technology: BI&T*, 1995 Nov-Dec; 29(6), 534.
- Cohen T, Bakuzonis C, Friedman SB, Roa RL (1995) Benchmark indicators for medical equipment repair and maintenance. *Biomedical Instrumentation & Technology: BI&T*, 1995 Jul-Aug; 29(4), 308-332.
- Cohen T, Stiefel RH (1994) *Computerized Maintenance Management Systems for clinical engineering*, an AAMI Management Information Report (MIR) book. Arlington, VA: AAMI.
- Cohen T, Short WA, Tang P, Millar S, Keil OR, Singleton JK, Katz PA (1994) Information technology in tomorrow’s health care. *Biomedical Instrumentation & Technology: BI&T*, 1994 Nov-Dec; 28(6), 441-447.
- Cohen T (1985) Microprocessor-based medical instrumentation, part 1, supporting the equipment in the hospital. *Biomedical Technology Today*, 1985 Nov-Dec.
- Cohen T (1984) Considerations in establishing a medical instrumentation maintenance program (section 4), in *Guideline for Establishing and Administering Medical Instrumentation Maintenance Programs*. Arlington, VA: AAMI.

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Cohen T (1982) The cost of biomedical equipment repair and maintenance: results of a survey. *Medical Instrumentation*, 1982 Sep-Oct; 16(5), 269-271.

Cohen T (1978) A desktop computer data base and graphics system for intensive care units. Master's Thesis, California State University, Sacramento, CA.

Presentations (selected):

Baretich MF, Bush M, Cohen T, Painter FR (2015) AAMI's HTM benchmarking: learn what's new and how to strengthen your CE program. AAMI Annual Meeting, Denver, CO, June 2015.

Cohen T, David Y, Raymond P, Eagles S, Fuchs K, Cooper T (2015) Managing risks of integrated systems and networks in the healthcare environment: introduction to networks and integration (one day course). Course co-developer and co-instructor. AAMI Annual Meeting, June 2015.

Cohen T, Baretich MF, Painter FR (2014) AAMI HTM levels. AAMI Annual Meeting, Philadelphia, PA, June 2014.

Cohen T, David Y, Raymond P, Eagles S, Fuchs K, Cooper T (2014) Managing risks of integrated systems and networks in the healthcare environment: introduction to networks and integration (one day course). Course co-developer and co-instructor. AAMI Annual Meeting, June 2014.

Cohen T, Ward C (2014) CMMS data integrity. AAMI Annual Meeting, June 2014.

Cohen T (2013) Regulatory 101 for BMETs and CEs. CMIA Annual Meeting, April 2013.

Cohen T (2012) Wireless medical device challenges in a university hospital. AAMI Annual Meeting, June 2012.

Cohen T (2012) Using your CMMS to help manage network connected medical systems. Fourth Annual Medical Device Connectivity Conference, November 2012.

Cohen T (2011) Physiological monitor integration solutions: a multi-year case study. AAMI Annual Meeting, June 2011.

Cohen T, Liu K (2011) OR integration, AAMI Annual Meeting, June 2011.

Cohen T, Ward C (2011) Large-scale implementation of wireless smart pumps: lessons learned. AAMI Annual Meeting, June 2011.

Cohen T (2011) ABS how to: staffing UC Davis staffing case study (part of AAMI Benchmarking Solutions project). AAMI Annual Meeting, June 2011.

Cohen T (2010) Quantitative benchmarking (part of ABS project). AAMI Annual Meeting, June 2010.

Cohen T, Painter FR, Clark T, Baretich MF (2010) CCE Review course instructor, on-line and in person (several times over several years, 2010 to 2015).

Cohen T, Juett S (2009) OR integration: a solution experience. National Association for Medical Advancement, San Diego, CA, November 2009.

Cohen T (2009) Introduction to biomedical networking short course (one day). Course developer and co-instructor (several times over several years, 2009 to 2015), Sacramento, CA.

Cohen T, Green D (2009) Patient monitor integration. EPIC Users Group Meeting, Nursing Advisory Council, September 2009.

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Cohen T (2008) What's new in regulatory issues in California? AAMI Annual Meeting, May 2008.

Cohen T, Green D (2008) Case study: CE/IT collaboration. AAMI Annual Meeting, May 2008.

Cohen T (2008) ACCE educational teleconference case study: integrating physiological monitors to an EMR, Fall 2008.

Cohen T (2002) Coordinator, ACCE symposium, and presenter Clinical Engineering/IT case studies. AAMI Annual Meeting, June 2002.

Cohen T (2001) The convergence and integration of information and medical technology. EPSM Annual Meeting, September 2001.

Cohen T (2001) PACS, UC Davis experience. EPSM Annual Meeting, September 2001.

Cohen T (2001) Benchmarking and measurement tools for medical equipment services. EPSM Annual Meeting, September 2001.

Cohen T (2001) Results of the ACCE body of knowledge survey. AAMI Annual Meeting, 2001.

Cohen T (2000) Integration of clinical engineering and information technology. UHC Clinical Engineering Council, June 2000.

Cohen T (1998) Data-driven performance improvement. AAMI Annual Meeting, May 2008.

Cohen T (1997) Validating medical equipment repair and maintenance metrics. AAMI Annual Meeting, June 1997.

Cohen T (1995) Codes and standards: current status and proposed changes. AAMI Regional Meeting, May 1995.

Cohen T (1992) Codes and standards: current status and proposed changes. AAMI Regional Meeting, June 1992.

Cohen T (1990) Computerized Maintenance Management Systems (CMMS), AAMI short course instructor, 4-8 hour course (every year from 1990 to 2000).

Cohen T (1986) Codes and standards: current status and proposed changes. AAMI Regional Meeting, October 1986.

Professional and Character References:

Available upon request