

James J. Lamberg

james.lamberg@gmail.com

EDUCATION

| | | |
|------|-------------|--|
| DO | 2007 – 2011 | Doctor of Osteopathic Medicine Lake Erie College of Osteopathic Medicine, Erie, PA |
| BEng | 2002 – 2006 | Bachelor of Computer Engineering with Biomedical Option University of Minnesota – Twin Cities, Institute of Technology, Minneapolis, MN |
| BEng | 2001 – 2005 | Bachelor of Electrical Engineering with Biomedical Option University of Minnesota – Twin Cities, Institute of Technology, Minneapolis, MN |

POSTGRADUATE TRAINING

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|------------|-------------|---|
| Fellowship | 2015 – 2016 | Critical Care Medicine Pennsylvania State University Milton S. Hershey Medical Center, Hershey, PA |
| Residency | 2011 – 2015 | Anesthesiology, Integrated Four-Year Program Pennsylvania State University Milton S. Hershey Medical Center, Hershey, PA |
| Internship | 2011 – 2012 | Recognition of PGY-1 (OGME1) Year by American Osteopathic Association American Osteopathic Association Program and Training Review Council |

MEDICAL LICENSURE

| | |
|----------------|--|
| 2014 – Present | Pennsylvania, State Board of Osteopathic Medicine (Unrestricted), #OS016972 |
| 2011 – Present | National Provider Identifier (NPI), Anesthesiology, NPI Registry #1629362827 |
| 2011 – 2016 | Pennsylvania, State Board of Osteopathic Medicine (Training), #OT014138 |

BOARD CERTIFICATIONS

| | |
|----------------|---|
| 2017 – Present | Perioperative Transesophageal Echocardiography (PTE-B), National Board of Echocardiography Basic Level Certification in 2017, Certificate #2016-00031201 |
| 2016 – Present | Critical Care Medicine (D.ABA), American Board of Anesthesiology Primary Certification in 2016, Certificate #54753 |
| 2016 – Present | Anesthesiology (D.ABA), American Board of Anesthesiology Primary Certification in 2016, Certificate #54753 |

ADDITIONAL CERTIFICATIONS

| | |
|----------------|---|
| 2015 – Present | Basic Life Support Provider (BLS), American Heart Association |
| 2013 – Present | ACLS Experienced Provider (ACLS-EP) National Faculty, American Heart Association |
| 2011 – Present | Advanced Trauma Life Support (ATLS) For Doctors, American College of Surgeons |
| 2007 – Present | Cardiac Device Specialist (IBHRE), International Board of Heart Rhythm Examiners |
| 2007 – Present | Pediatric Advanced Life Support Instructor (PALS-I), American Academy of Pediatrics |
| 2005 – Present | Advanced Cardiac Life Support Instructor (ACLS-I), American Heart Association |
| 2004 – Present | Open Water SCUBA Diver, Scuba Schools International |
| 2005 – 2015 | Basic Life Support Instructor (BLS-I), American Heart Association |

WORK HISTORY

- Aug 2016 – Present Physician Anesthesiologist
Anesthesia Associates of Lancaster, Lancaster, PA
- Apr 2014 – Present Director: TrueLearn Anesthesiology Comprehensive Board Review
TrueLearn, Pittsburgh, PA
- Oct 2010 – Jul 2011 Director: Combank Osteopathic Medicine Comprehensive Board Review
TrueLearn (Formerly Test Weapon), Pittsburgh, PA
- Jan 2006 – Aug 2007 Software Engineer: Medical Devices
Medtronic Cardiac Rhythm Disease Management, Fridley, MN
- Feb 2003 – Mar 2006 Communications Supervisor: Emergency Medical Services
University of Minnesota Emergency Medical Service, Minneapolis, MN
- Jun 2005 – Dec 2005 Quality Assurance Engineer Intern: Medical Devices
Minnetronix, Saint Paul, MN
- May 2002 – Jul 2005 Emergency Department Technician
University of Minnesota Medical Center, Minneapolis, MN
- Feb 2003 – Feb 2004 Phlebotomist: Plasma Donation Center
ZLB Bioservices (Formerly Aventis), Minneapolis, MN
- May 2002 – Sep 2002 Electrical Engineering Intern
Alliant Techsystems, Plymouth, MN
- Nov 2001 – May 2002 Electronics Technician: Medical Devices
University of Minnesota Psychiatry Research, Minneapolis, MN

PUBLICATIONS (REFERRED)

1. Answine JF, **Lamberg JJ**. In response: Interdisciplinary intraoperative communication and collaboration needed for optimal neuromuscular blockade management. *Journal of Anaesthesiology Clinical Pharmacology*. 2014 Jul;30(3):443-4. doi: 10.4103/0970-9185.137302. PMID 25190971.
2. **Lamberg JJ**, Adhikary SD, McFadden AT. Osteopathic Musculoskeletal Examination And Spinal Anesthesia In A Patient With Severe Scoliosis. *Journal of the American Osteopathic Association*. 2014 Jul;114(7):582-5. doi: 10.7556/jaoa.2014.112. PMID 25002451.
3. **Lamberg JJ**, Donahue KS. Near-Complete Upper Airway Obstruction From A Grape. *Anesthesiology*. 2015 Feb;122(2):435. doi: 10.1097/ALN.000000000000091. PMID 24304711.
4. **Lamberg JJ**, Answine JF. A Surgeon's Assessment of Inadequate Neuromuscular Antagonism In A Case of Prolonged Neuromuscular Blockade. *Journal of Anaesthesiology Clinical Pharmacology*. 2013;29(2):244-7. doi: 10.4103/0970-9185.111654. PMID 23878451.
5. **Lamberg JJ**, Cherian VT. Neuraxial Anesthesia In CADASIL Syndrome. *Journal of Neurosurgical Anesthesiology*. 2013 Apr;25(2):216. doi: 10.1097/ANA.ob013e3182836086. PMID 23461972.
6. **Lamberg JJ**, Farbaniec M, Kuperman EF. Massive Paraesophageal Hernia Mimicking Pulmonary Embolus. *Journal of General Internal Medicine*. 2013;28(9):1241. Epub 2013 Feb 13. doi: 10.1007/s11606-013-2353-0. PMID 23404200.
7. **Lamberg JJ**, Gordin VN. Serotonin Syndrome in a Patient with Chronic Pain Polypharmacy. *Pain Medicine*. Pain Med. 2014 Aug;15(8):1429-31. Epub 2012 Aug 23. doi: 10.1111/j.1526-4637.2012.01468.x. PMID 22925399.

PUBLICATIONS (BOOK CHAPTERS)

1. **Lamberg JJ**. Emergency Medications. In: Principles of Paramedic Care, 1st Ed. Navarro, K. Philadelphia: F. A. Davis, approx. 150 pages (currently in editorial review).

PUBLICATIONS (NON-REFERRED)

1. **Lamberg JJ**. Axillary Central Venous Cannulation For Cardiac Surgery (Article and Procedural Video). *Journal of Lancaster General Hospital*. Summer 2017.

2. **Lamberg JJ**, Verbeek TA. Practice Advisory: Difficult Airway Communication. Penn State Milton S. Hershey Medical Center 2016.

3. Bilko AF, **Lamberg JJ**, CME: Management of the Patient with Amniotic Fluid Embolism. *Anesthesiology News*. 2015;June:16.

4. **Lamberg JJ**, Malhotra AK, McAlevy ME. Intracardiac Epinephrine Injection During Open Thoracotomy and Circulatory Arrest. *Journal of Anesthesia & Clinical Research*. 2013;4(7):341. doi: 10.4172/2155-6148.1000341.

5. **Lamberg JJ**, Sathishkumar S. Practice Advisory: Cephalosporin Antibiotic Use In Patients With Reported Penicillin Allergy. Penn State Milton S. Hershey Medical Center 2013.

6. **Lamberg JJ**, Yoo LJ. Letter To The Editor: Swab All Vials With Alcohol. *Anesthesia Patient Safety Foundation Newsletter*. 2012;Fall:33.

CLINICAL REFERENCE ARTICLES

1. **Lamberg JJ**. Advanced Cardiac Life Support (ACLS): Asystole/PEA. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172100-overview>

2. **Lamberg JJ**. Advanced Cardiac Life Support (ACLS): Bradycardia. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172085-overview>

3. **Lamberg JJ**. Advanced Cardiac Life Support (ACLS): Tachycardia. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172112-overview>

4. **Lamberg JJ**. Advanced Cardiac Life Support (ACLS): VF/VT Arrest. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172091-overview>

5. **Lamberg JJ**. Pediatric Advanced Life Support (PALS): Asystole/PEA. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2066758-overview>

6. **Lamberg JJ**. Pediatric Advanced Life Support (PALS): Bradycardia. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2066778-overview>

7. **Lamberg JJ**. Pediatric Advanced Life Support (PALS): Tachycardia. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2066794-overview>

8. **Lamberg JJ**. Pediatric Advanced Life Support (PALS): VF/VT Arrest. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2066765-overview>

9. **Lamberg JJ**. Neonatal Advanced Life Support (NALS). *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172079-overview>

10. **Lamberg JJ**. Basic Life Support (BLS): Adult. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172066-overview>

11. **Lamberg JJ**. Basic Life Support (BLS): Pediatric. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2058889-overview>

12. **Lamberg JJ.** Rapid Sequence Induction And Intubation. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172130-overview>

13. **Lamberg JJ.** Mallampati Classification. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172419-overview>

14. **Lamberg JJ.** Local And Topical Anesthetics. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172060-overview>

15. **Lamberg JJ.** Light's Criteria. *Medscape Reference*. Updated March 21, 2014. Available at: <http://emedicine.medscape.com/article/2172232-overview>

INVITED LECTURES

2014 **Lamberg JJ,** Budde AO. Oral Presentation and Simulation Session.
“Airway Management and Airway Exchange Techniques”
ASA Technologists and Technicians Regional Conference, August 24, Hershey, PA, USA

EDITORIAL ASSISTANCE

2016 Invited Reviewer. Journal of Multidisciplinary Healthcare.
“Clinical Osteopathic Observation of Patients with Left-Ventricular Assistance Devices”

2014 Invited Reviewer. Aperiato Journal of Surgery and Anaesthesia.
“Anesthetic Considerations for a Patient with Intralobar Pulmonary Sequestration”

CONFERENCES AND WORKSHOPS

2016 Horst M, **Lamberg JJ.** Poster Presentation.
“Colovesical Fistula Leading to Hyperchloremic Metabolic Acidosis and Acute Kidney Injury”
American Society of Anesthesiologist Conference, October 22, Chicago, IL, USA

2015 **Lamberg JJ,** Anson JA. Poster Presentation.
“Emergency Airway Management of an Obtunded Patient With an In-Situ Tracheal T-Tube”
American Society of Anesthesiologist Conference, October 24, San Diego, CA, USA

2015 **Lamberg JJ,** Pilipovic M. Poster Presentation.
“Arrhythmia During Transversus Abdominis Plane Block With EXPAREL”
Pennsylvania Anesthesiology Resident Research Conference, May 9, Philadelphia, PA, USA

2015 **Lamberg JJ,** Mooney JJ. Poster Presentation.
“Attempts At Breaching A Fingerprint-Secured Automated Medication Dispenser”
Penn State Hershey Medical Center Resident Research Day, May 7, Hershey, PA, USA

2014 **Lamberg JJ,** Caldwell JC, Gordin VN. Poster Presentation.
“Serotonin Syndrome and Chronic Pain Polypharmacy”
Penn State Hershey Medical Center Resident Research Day, May 23, Hershey, PA, USA

2014 **Lamberg JJ,** Later SD, Satishkumar S, Kodavatiganti R. Poster Presentation.
“Takotsubo Cardiomyopathy Prior To Induction of General Anesthesia”
Pennsylvania Anesthesiology Resident Research Conference, May 10, Pittsburgh, PA, USA

2013 **Lamberg JJ,** Malhotra AK, McAlevy ME. Poster Presentation.
“Beyond Pulp Fiction: Intracardiac Epinephrine Injection During Circulatory Arrest”
Penn State Hershey Medical Center Resident Research Day, May 14, Hershey, PA, USA

2013 **Lamberg JJ,** Kodavatiganti R. Poster Presentation - First Place Award.
“The Role of Intraoperative TEE in Trauma of Questionable Mechanism of Injury”
Pennsylvania Anesthesiology Resident Research Conference, May 11, Philadelphia, PA, USA

- 2012 Pott LM, **Lamberg JJ**. Oral Presentation.
 “Difficult Airway Simulator”
 Society for Airway Management Annual Scientific Meeting, September 22, Toronto, ON, Canada
- 2012 **Lamberg JJ**, Farbaniec M, Kuperman EF. Oral Presentation.
 “Bowel Beyond Borders: A Massive Paraesophageal Hernia Mimicking A Pulmonary Embolism”
 Society for General Internal Medicine Annual Meeting, May 12, Orlando, FL, USA
- 2005 **Lamberg JJ**. Oral Presentation.
 “Medical RFID, MRI, and EMC Testing”
 International Printed Circuits Conference, June 23, Minneapolis, MN, USA

AWARDS AND HONORS

- 2015 Resident Case Conference Presentation Award, 1st Place
 Department of Anesthesiology, Penn State Hershey Medical Center, Hershey, PA
- 2014 Resident Research Publication Award, 2nd Place
 Department of Anesthesiology, Penn State Hershey Medical Center, Hershey, PA
- 2014 Resident Case Conference Presentation Award, 3rd Place
 Department of Anesthesiology, Penn State Hershey Medical Center, Hershey, PA
- 2014 Unsung Hero of Osteopathic Medicine
 American Osteopathic Association
- 2013 Resident Teaching Award
 Department of Anesthesiology, Penn State Hershey Medical Center, Hershey, PA
- 2012 Mentor Hall of Fame Inductee
 American Osteopathic Association and American Osteopathic Foundation
- 2012 Professional Practice Award
 Department of Anesthesiology, Penn State Hershey Medical Center, Hershey, PA
- 2011 Student Doctor of the Year
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2011 T.O.U.C.H. Community Service Award
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2010 LECOM Student Government Association Scholarship
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2010 T.O.U.C.H. Community Service Award
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2009 LECOM Ambassador Scholarship
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2009 T.O.U.C.H. Community Service Award
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2008 Student Doctor of the Month (August)
 Lake Erie College of Osteopathic Medicine, Erie PA
- 2007 Mortar Board Fellowship
 Mortar Board National Foundation

- 2004 Owen Schott Engineering Scholarship
Institute of Technology, University of Minnesota, Minneapolis, MN
- 2003 Volunteer of the Year
University of Minnesota Emergency Medical Services, Minneapolis, MN
- 2002 Roger Norby Engineering Scholarship
Institute of Technology, University of Minnesota, Minneapolis, MN
- 2001 ATK Foundation Scholarship
Alliant Techsystems, Minneapolis, MN

TEACHING AND EDUCATION: PRESENTATIONS

- 2017 Educational Lecture
“Practical Thoracic Anesthesia”
Department of Anesthesiology, Lancaster General Hospital, November 2017
- 2017 Educational Lecture
“Corneal Abrasions: MACRA, MIPS, AQI NACOR”
Department of Anesthesiology, Lancaster General Hospital, September 2017
- 2017 Educational Lecture
“FCCS: Airway Management”
Fundamental Critical Care Support, Lancaster General Hospital, September 2017
- 2017 Educational Lecture
“Anesthetic Pharmacology For Trauma”
Department of Anesthesiology, Lancaster General Hospital, August 2017
- 2017 Educational Lecture and Workshop
“Ultrasound For Vascular Access”
Department of Anesthesiology, Lancaster General Hospital, July 2017
- 2017 Educational Lecture
“Trauma Airway Guideline and Rapid Sequence Induction Review”
Department of Anesthesiology, Lancaster General Hospital, June 2017
- 2017 Educational Lecture
“FCCS: Airway Management”
Fundamental Critical Care Support, Lancaster General Hospital, February 2017
- 2017 Educational Lecture
“Review of Thoracic Anesthesia”
Department of Anesthesiology, Lancaster General Hospital, January 2017
- 2015 Case Presentation
“Airway Emergency: Tracheal Stent”
Department of Anesthesiology, Penn State Hershey Medical Center, May 2015
- 2014 Case Presentation
“Arrhythmia During Transversus Abdominis Plane Block Using Liposomal Bupivacaine”
Department of Anesthesiology, Penn State Hershey Medical Center, August 2014
- 2014 Journal Club Presentation
“Perioperative Gabapentinoids”
Department of Anesthesiology, Penn State Hershey Medical Center, January 2014
- 2013 Brief Oral Presentation
“Fact Or Fiction? Bag-Valve-Mask Devices: Spontaneous Breathing And Preoxygenation”
Department of Anesthesiology, Penn State Hershey Medical Center, November 2013

- 2013 Case Presentation
 “Emergency Appendectomy”
 Department of Anesthesiology, Penn State Hershey Medical Center, September 2013
- 2013 Brief Oral Presentation
 “Cephalosporin Use In Patients With Reported Penicillin Allergy”
 Department of Anesthesiology, Penn State Hershey Medical Center, February 2013
- 2013 Case Presentation
 “Pediatric Airway Emergency”
 Department of Anesthesiology, Penn State Hershey Medical Center, February 2013
- 2013 Brief Oral Presentation
 “Fact Or Fiction? The Best Method For Preventing Propofol Burn Is...”
 Department of Anesthesiology, Penn State Hershey Medical Center, February 2013
- 2012 Case Presentation
 “Transesophageal Echocardiography in Trauma”
 Department of Anesthesiology, Penn State Hershey Medical Center, December 2012
- 2012 Case Presentation
 “Venous Air Embolism During Sitting Craniotomy”
 Department of Anesthesiology, Penn State Hershey Medical Center, November 2012
- 2012 Journal Club Presentation
 “Managing Fresh Gas Flow To Reduce Environmental Contamination”
 Department of Anesthesiology, Penn State Hershey Medical Center, October 2012
- 2012 Case Presentation
 “Post-Operative Corneal Abrasions”
 Department of Anesthesiology, Penn State Hershey Medical Center, August 2012

TEACHING AND EDUCATION: AMERICAN HEART ASSOCIATION

- 2014 Medical Director, Advanced Cardiac Life Support Experienced Provider Course
 National Association of EMS Educators Annual Meeting, September 16-17, Reno, NV, USA
- 2013 Invited Instructor, Advanced Cardiac Life Support Experienced Provider Course
 American Heart Association Regional Meeting, June 17-18, Atlanta, GA, USA
- 2013 Invited Instructor, Advanced Cardiac Life Support Experienced Provider Course
 American Heart Association Regional Meeting, April 11-12, Saint Louis, MO, USA

TEACHING AND EDUCATION: RESIDENT PHYSICIANS

- Sep 2015 Ultrasound Guided Vascular Assessment And Central Line Catheterization
 Sep 2015 Anesthesia PGY-1/2 Residents: Trauma – Airway Management In Hypovolemia
 Aug 2015 Anesthesia PGY-1 Residents: Objective Structured Clinical Examination
 Jul 2014 Anesthesia PGY-1 Residents: Objective Structured Clinical Examination
 Jun 2014 Anesthesia PGY-1 Residents: New Resident Orientation
 May 2014 Anesthesia PGY-2 Residents: Objective Structured Clinical Examination
 Jun 2013 Anesthesia PGY-1 Residents: New Resident Orientation
 Sep 2012 Anesthesia PGY-1 Residents: Final Objective Structured Clinical Examination

TEACHING AND EDUCATION: MEDICAL STUDENTS

| | |
|----------|--|
| May 2016 | PSUCOM Medical Student Workshop: Venipuncture And Intravenous Access |
| Oct 2015 | PSUCOM Medical Student Workshop: Cardiopulmonary Resuscitation |
| May 2014 | PSUCOM Surgery Clerkship Lecture: Anesthesia And Perioperative Complications |
| Apr 2014 | PSUCOM Surgery Clerkship Workshop: Advanced Cardiac Life Support Simulation Session |
| Mar 2014 | PSUCOM Anesthesia Clerkship Workshop: Introduction To Anesthesiology |
| Jul 2013 | PSUCOM Anesthesia Clerkship Workshop: Advanced Cardiac Life Support Simulation Session |
| Jul 2013 | PSUCOM Surgery Clerkship Lecture: Anesthesia And Perioperative Complications |
| Jun 2013 | PSUCOM Medical Student Workshop: Venipuncture And Intravenous Access |
| Mar 2013 | PSUCOM Anesthesia Clerkship Workshop: Airway Management Simulation Session |
| Feb 2013 | PSUCOM Anesthesia Clerkship Workshop: Advanced Cardiac Life Support Simulation Session |
| Nov 2012 | PSUCOM Anesthesia Clerkship Workshop: Advanced Cardiac Life Support Simulation Session |
| Sep 2012 | PSUCOM Anesthesia Clerkship Workshop: Advanced Cardiac Life Support Simulation Session |
| Apr 2012 | PSUCOM Anesthesia Clerkship Workshop: Airway Management Simulation Session |

QUALITY IMPROVEMENT PROJECTS

| | |
|-------------|---|
| 2017 – 2018 | Perioperative Corneal Abrasions Protocol Department of Anesthesiology, Lancaster General Hospital |
| 2017 – 2018 | Airway Management Trauma Guideline (Full Revision) Trauma and Acute Care Surgery, Lancaster General Hospital |
| 2014 – 2016 | Anesthesia Intensive Care Unit Progress Note Template Interdisciplinary Critical Care Committee, Penn State Hershey Medical Center |
| 2015 – 2016 | Anesthesia Intensive Care Unit Admission Order Set Interdisciplinary Critical Care Committee, Penn State Hershey Medical Center |
| 2015 – 2016 | Anesthesia Intraoperative Blood Management Order Set Clinical Informatics and Analytics Committee, Penn State Hershey Medical Center |
| 2013 – 2014 | Adult Endotracheal Intubation Order Set Interdisciplinary Critical Care Committee, Penn State Hershey Medical Center |
| 2013 – 2014 | Anesthesia Hospital Charges (Electronic Form Update) Department of Anesthesiology, Penn State Hershey Medical Center |
| 2012 – 2012 | Difficult Airway Letter (Form Update) Department of Anesthesiology, Penn State Hershey Medical Center |
| 2012 – 2013 | Perioperative Sharps Education (Flyer And Guidelines Update) Department of Safety, Penn State Hershey Medical Center |

PROFESSIONAL AFFILIATIONS

| | |
|----------------|--|
| 2012 – Present | Society of Critical Care Anesthesiologists (SOCCA) |
| 2012 – Present | Society of Critical Care Medicine (SCCM) |
| 2010 – Present | International Anesthesia Research Society (IARS) |
| 2010 – Present | Society for Technology in Anesthesia (STA) |
| 2010 – Present | Pennsylvania Society of Anesthesiologists (PSA) |
| 2009 – Present | American Society of Anesthesiologists (ASA) |
| 2009 – Present | American Osteopathic College of Anesthesiologists (AOCA) |
| 2007 – Present | American Medical Association (AMA) |
| 2007 – Present | American Osteopathic Association (AOA) |
| 2008 – 2017 | American Heart Association (AHA) Council on Cardiopulmonary, Preoperative, and Critical Care |
| 2001 – 2017 | IEEE Engineering in Medicine and Biology (EMB) Society |
| 2011 – 2016 | Society for Airway Management (SAM) |
| 2010 – 2016 | Society for Education in Anesthesia (SEA) |

ORGANIZATIONAL ACTIVITIES: HOSPITAL COMMITTEES

| | |
|----------------|---|
| 2017 – Present | Blood Utilization Review Committee Lancaster General Hospital |
| 2017 – Present | Trauma Program Liaison (Department of Anesthesiology) Lancaster General Hospital |
| 2014 – 2016 | Adult Code Blue Standardization Committee Penn State Hershey Medical Center |
| 2014 – 2016 | Adult Resuscitation Council Penn State Hershey Medical Center |

ORGANIZATIONAL ACTIVITIES: DEPARTMENTAL COMMITTEES

| | |
|-------------|---|
| 2012 – 2016 | Medical Student Education Committee Department of Anesthesiology, Penn State Hershey Medical Center |
| 2012 – 2016 | Handoff Communications Committee Department of Anesthesiology, Penn State Hershey Medical Center |
| 2011 – 2016 | Clinical Informatics and Analytics Committee Department of Anesthesiology, Penn State Hershey Medical Center |
| 2011 – 2016 | Internet Solutions Committee Department of Anesthesiology, Penn State Hershey Medical Center |

ACTIVITIES AND VOLUNTEERING

| | |
|----------------|--|
| 2013 – 2017 | National Resource Volunteer Emergency Cardiovascular Care Science Committee, American Heart Association |
| 2011 – 2016 | Volunteer Instructor for ACLS, PALS, and BLS Courses Penn State Hershey Medical Center, Hershey, PA |
| 2011 – 2016 | Software Developer and Lead Editor Sepsis Guide Mobile Surviving Sepsis Application for Apple iOS |
| 2010 – 2011 | Volunteer Instructor for ACLS, PALS, and BLS Courses UPMC Hamot Medical Center, Erie, PA |
| 2008 – 2011 | Volunteer Instructor for Paramedic, EMT, ACLS, PALS, and CPR Courses EmergyCare Inc., Erie, PA |
| 2011 – 2017 | Software Developer and Lead Editor Pain Guide Mobile Pain Management Application for Apple iOS |
| 2010 | Volunteer Instructor for EMT, ACLS, and BLS Distance Education Allied Medical Training, Minneapolis, MN |
| 2010 – Present | Software Developer and Lead Editor Gas Guide Mobile Anesthesia Application for Apple iOS |
| 2009 – Present | Software Developer and Lead Editor OMM Guide Mobile Osteopathic Application for Apple iOS |

2008 – 2009 Independent Study Pathway Representative
Lake Erie College of Osteopathic Medicine, Erie, PA

2008 – 2009 Student Ambassador
Lake Erie College of Osteopathic Medicine, Erie, PA

2006 – 2008 National Section Coordinator
Mortar Board National Senior Honor Society

2006 Camp Counselor
Camp Odayin for Children with Heart Disease

2006 National Conference Ambassador
Mortar Board National Senior Honor Society

2005 – 2006 President
University of Minnesota Chapter of Mortar Board National Senior Honor Society

2004 – 2007 Member
National Associations of Emergency Medical Services Educators (NAEMSE)

2003 – 2006 Member
Eta Kappa Nu (HKN) International Electrical Engineering Honor Society

2002 – 2013 Nationally Registered Emergency Medical Technician Advanced (EMT-I)
National Registry of Emergency Medical Technicians

2001 – 2006 Volunteer Emergency Medical Technician
University of Minnesota Emergency Medical Services, Minneapolis, MN

2001 National Competition Team Member
FIRST Robotics, Orlando, FL