

**Md Shahnoor Amin, MD PhD**  
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## EDUCATION

### **Doctor of Medicine**

University of Illinois, Urbana-Champaign, IL  
(Carle Illinois College of Medicine) 2018 – 2022

### **Doctor of Philosophy in Systems Engineering**

George Washington University, Washington D.C. 2014 – 2018

### **Master of Engineering**

University of Michigan, Ann Arbor, MI 2009 – 2010

### **Bachelor of Science in Electrical Engineering**

Kettering University, Flint, MI 2005 – 2009

## POSTGRADUATE TRAINING

**Internal Medicine Residency**, Henry Ford Hospital, Detroit, MI July 2022 - Current

## HONORS/AWARDS

**Intern of the Month nominee**, Department of Internal Medicine  
Henry Ford Hospital, Detroit, MI July 2022

## LICENSURE AND CERTIFICATIONS

**Full Medical License**, Ohio 2023 – current

**Medical Educational License**, Michigan 2022 – current

**Basic Life Support**, American Heart Association 2022 – current

**Advanced Cardiovascular Life Support**, American Heart Association 2022 – current

## PROFESSIONAL MEMBERSHIPS

American College of Physicians 2020 – Current

## RESEARCH EXPERIENCE

Cervical Cancer Screening, Henry Ford Hospital November 2022 – May 2023

## PUBLICATIONS

### *Peer Reviewed Journal Articles/Abstracts:*

Amin, M.S., Blackburn, T., & Garstenauer, A.. (2018, Mar). Deploying a Recall Mitigation Framework for Systems Engineering. *Engineering Management Journal*, 30(1), 42-56.  
Pub Status: Published.

Amin, M.S., Wozniak, M., Barbaric, L., Pickard, S., Yerrabelli, S., Christensen, A., & Coiado, O.C.. (2021, Sep). Experimental Technologies in the Diagnosis and Treatment of COVID-19 in Patients with Comorbidities. *Journal of Healthcare Informatics Research, COVID-19(Special Collection)*, 1-24.  
Pub Status: Published.

### *Peer Reviewed Journal Articles/Abstracts (Other than Published):*

Amin, M.S., & Atwain, F. . (2018, Aug). SaIF: A Safety-Focused Supplier Selection Framework for Acquisition of Complex Systems. *Ground Vehicle Systems Engineering and Technology Symposium (GVSETS)*.  
Pub Status: Accepted.

### *Poster Presentations:*

Amin, M. S. (n.d.-a). Society of General Internal Medicine (SGIM 2023). In *Breaking Down Barriers for Cervical Cancer Screening Using Secure Group Texting*.

Amin, M.S., Blackburn, T., & Garstenauer, A.. (2016, July 07). System Stakeholder Requirements and Impact on Automotive Recalls [ Poster presented]. *International Conference on Vehicle Engineering and Design/Lucerne, CHE*.

Amin, M.S., Coiado, O.C.. (2021, June 14). A Teamwork Approach to Compiling a Review Paper on COVID-19 Experimental Technologies [Poster presented]. *International Society of Medical Educators (IAMSE) 2021/Huntington, WV, USA*.

Amin, M.S., Kumar, J., Coiado, O., & Ahmad, K.. (2020, December 01). Vehicle Occupant Cardiac Monitoring System and Methods [ Poster presented]. *American College of Physicians/Urbana, IL, USA*.

### *Oral Presentation:*

Amin, M.S.. (2010, July 16). Energy Utilization in Africa and Viable Solutions [Oral Presentation]. *Global Innovation Symposium (GIS) Taiwan 2010/Taipei, TWN*.

Amin, M.S., & Atwain, F.. (2019, April 09). Implementing a Comprehensive Software Validation Tool for Preventing Safety Issues and Failures in Military Ground Vehicle Systems [Oral Presentation]. *Society of Automotive Engineers (SAE) World Congress/Detroit, MI, USA*.

*Peer Reviewed Online Publication:*

Amin, M.S.. (2017, June 27). Vehicle fuel maintenance systems and methods (patent). <https://patentimages.storage.googleapis.com/9a/9c/19/99caaec2bf21b0/US9688270.pdf> Pub Status: Published.

Amin, M.S.. (2019, June 12). An intelligent electric vehicle (EV) cable management system (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN283163752&tab=NATIONALBIBLIO&\\_cid=P22-KQ16VL-23760-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN283163752&tab=NATIONALBIBLIO&_cid=P22-KQ16VL-23760-1) Pub Status: Published.

Amin, M.S.. (2019, September 13). A method for monitoring maintenance cycle of an inductive charging system for an electric vehicle and a system thereof. [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757493&\\_cid=P22-KQ1CTZ-77067-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757493&_cid=P22-KQ1CTZ-77067-1) Pub Status: Published.

Amin, M.S.. (2019, September 13). Method for Controlling Wireless Vehicle Charging using Biosensing (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757496&\\_cid=P22-KQ1C2S-71197-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757496&_cid=P22-KQ1C2S-71197-1) Pub Status: Published.

Amin, M.S.. (2020, May 22). A System and Method for Electrically Charging a Power Source of a Vehicle (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN295989480&\\_cid=P22-KQ12CO-76073-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN295989480&_cid=P22-KQ12CO-76073-1) Pub Status: Published.

Amin, M.S.. (2020, June 12). Electric Vehicle Supply Equipment (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN296579780&tab=NATIONALBIBLIO&\\_cid=P22-KQ1274-74573-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN296579780&tab=NATIONALBIBLIO&_cid=P22-KQ1274-74573-1) Pub Status: Published.

Amin, M.S.. (2020, June 26). A Method and System for Cleaning a Charging Assembly of a Vehicle (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN297816928&tab=NATIONALBIBLIO&\\_cid=P22-KQ120A-71907-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN297816928&tab=NATIONALBIBLIO&_cid=P22-KQ120A-71907-1) Pub Status: Published.

Amin, M.S.. (2020, July 14). Lubrication system monitoring assembly and method (patent). <https://patentimages.storage.googleapis.com/d6/4b/a5/4544631550c5a0/US10711668.pdf> Pub Status: Published.

Amin, M.S., Abdul-Hak, M., & Brunson, J.. (2019, September 13). Cup Holding Arrangement (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757490&\\_cid=P22-KQ1CIH-74511-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757490&_cid=P22-KQ1CIH-74511-1) Pub Status: Published.

Amin, M.S., Hancasky, R.D., Dondzila, E., & Haladyna, T.. (2020, September 22). Method and assembly for heating an engine fluid (patent).

<https://patentimages.storage.googleapis.com/fa/96/bb/72900997bb674b/US10781731.pdf>

Pub Status: Published.

Amin, M.S., Uma Sankar, A.S., Armstrong, N., & Abdul-Hak, M.. (2019, September 13). System and Method to Optimize Wireless Power Transfer Using Vehicle Height and Load (patent). [https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757509&\\_cid=P22-KQ16YY-24630-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=IN275757509&_cid=P22-KQ16YY-24630-1)

Pub Status: Published.

*Other Articles:*

Amin, M. S., Blackburn, T., & Garstenauer, A.. (2018, May 01). Developing a Recall Mitigation Framework for Complex Systems. Pro Quest Dissertations Publishing (Doctoral Dissertation, GWU).

Pub Status: Published.

PROFESSIONAL SERVICE

**Electrical Engineer**, U.S. Army Ground Vehicle Systems, Warren, MI 2018 - 2019

**Senior Engineer**, Mercedes-Benz R&D, Redford, MI 2017 - 2018

VOLUNTEER EXPERIENCE

**Community Volunteer**, Adam Community Center, Troy, MI 2012 - Current

PERSONAL

English (Native), Bengali (Native), Spanish (basic/elementary), Arabic (read/write)