Andrew S. Morgan

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Objective: To pursue PhD graduate studies in Robotics upon graduation from Youngstown State University.

Education

Youngstown State University – Youngstown, OH

- Pursuing **Dual Honors Diploma: Bachelor of Computer Engineering; Bachelor of Computer Science**
- Cumulative GPA: **3.97/4.0**
- Expected graduation: May, 2017

Work Experience

Auburn REU on SMART UAVs. Auburn University. Auburn, AL (05/16 – 07/16; summer semester)

- Develop new technologies associated with "see and avoid" strategies and recovery systems
- Constructed two publishable papers and presentations for later representation of my work
- **RELATED SKILLS:** Computer Vision, C++, Embedded Systems, OpenCV, Academic Writing, Project Coordination

3D Printing Outreach Instructor for Youngstown Business Incubator. Cleveland, OH (08/16; 1-week summer camp)

- Develop a curriculum for High School students to learn the business side of 3D Printing
- Teach students the concepts associated with 3D printing
- **RELATED SKILLS:** 3D Printing, Slicing Software, Plan Management, Public Speaking

Honors Engineering Teaching Assistant / Engineering Lab Manager. Youngstown, OH (07/14 – present; academic year)

- Aid students in the understand of fundamentals learned throughout their coursework
- Develop student mentor relationships with incoming freshman honor students
- **RELATED SKILLS:** Microsoft Products, 3D Printing, Leadership, MATLAB, Solidworks, Project Coordination

Test Engineering Co-operative. ABB Inc. Wickliffe, OH (05/15 – 08/15; summer semester)

- Test ABB Power Systems components and modules for corresponding tasks
- Organize and coordinate co-op fundraising WE CARE charity event
- **RELATED SKILLS:** Microsoft Products, C, C++, Cisco Networking, Communications, Leadership, Arduino

Community Involvement/Leadership

Over 110 service hours documented at various events and organizations annually

- Elected STEM Representative – YSU Academic Senate (04/15 – present)
- YSU STEM Outreach Volunteer – 3D Printing (01/14 – present)
- YSU Honors Academic Journal Editor (10/15 – present)
- YSU Quest – a forum for undergraduate research – coordinator (01/16 – present)
- YSU Scholar Wars & Honors Orientation Coordinator (09/14 – present)
- Elected Treasurer of Orthodox Christian Fellowship Youngstown State University (09/13 – present)
- Elected treasurer of Youngstown State University Honors Trustees (05/15 – present)
- Elected STEM Representative - YSU Student Government Association (04/15 – 05/16)

Awards/Honors

- Youngstown State University Scholars Program (full 4-year academic scholarship based on outstanding academic achievement)
- National Recognition – Barry M. Goldwater Scholar 2016 (03/31/2016)
- National Recognition – Tau Beta Pi Scholar 2016 (06/06/2016)
- State Recognition – Ohio House & Senate Recognition Awards (07/13/2016)
- Dean's List / President's List; Youngstown State University (08/12 – present)
- Pi Mu Epsilon National Math Honor Society (03/15 – present)
- Phi Kappa Phi National Honor Society (03/15 – present)
- Tau Beta Pi National Engineering Honor Society (10/15 – present)

Completed Honors Courses: Differential Equations (3 s.h.), Calculus General Physics 1 (4 s.h.), Basic Digital Computer Circuit (3 s.h.), General Chemistry 1 (4 s.h.), Honors Engineering Concepts (2 s.h.), Honors Engineering Computing (2 s.h.), Introduction to Honors Seminar (1 s.h.), Honors Introduction to Engineering (1 s.h.), Senior Honors Thesis (1 s.h.), Advanced Logic Design (3 s.h.), and Sixth Sense (1 s.h.)

Patent: One Year (Provisional) Patent completed in April 2015 for device intended for utilization in the medical industry. Further iterations are in progress for hopes of filing 20 year patent upon completion.

Publications

- Meyers, K., Morgan, A., and Conner, B. "3D Printing in a First-Year Engineering Design Project". American Society for Engineering Education National Conference, New Orleans, 2016.
- Meyers, K., Morgan, A., and Conner, B. "Using 3D Printing to Understand the Design Iteration Process". Global Journal of Engineering Education, Vol. 18, Issue 1, 2016
- Morgan, A., Sharif, B., and Crosby, M. "Understanding a Novice Programmer's Progression of Reading and Summarizing Source Code". Koli Workshop 2014. Koli, Finland. 2014.

For additional information, please visit my website: http://asmorgan.people.ysu.edu