

# Adrian H. Padin

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<b>SUMMARY</b>	Seeking a full time engineering position. Intended focuses are in embedded systems (both hardware and software), but I also have interests in machine learning and data analysis. Motivated and hard-working individual with an interest in making a difference and collaborating with like-minded people. Extensive background in C, C++ and Python.	
<b>EDUCATION</b>	<b>University of Michigan</b> B.S.E. in Computer Engineering Minor in Music GPA: 3.94/4.0 <b>Relevant Coursework</b> EECS 473: Advanced Embedded Systems (Senior Design Project) EECS 461: Embedded Control Systems EECS 482: Operating Systems EECS 373: Microprocessor Programming EECS 445: Machine Learning EECS 281: Data Structures and Algorithms EECS 388: Computer Security	Ann Arbor, MI Expected May 2017
<b>WORK EXPERIENCE</b>	<b>Merit Network, Inc.</b> <i>Research Assistant, Data Analyst</i> <ul style="list-style-type: none"><li>• Worked in Security Research division under Dr. Michael Kallitsis</li><li>• Assisted with developing Machine Learning algorithms and tools to detect false data injection attacks on the smart grid.</li><li>• Primary author on a research paper detailing an experiment conducted at NextEnergy in Detroit, MI, to test custom analysis software in a real-world environment.</li></ul> <b>Innovative Devices, Inc.</b> <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>• Assisted in research and development of the Mycestro wearable computer mouse and worked with a team of engineers to develop integration software in Python and Ruby for using the Mycestro as a 3D mouse with Autodesk Maya and Google SketchUp.</li><li>• Wrote Python code to model rotations of simulated objects using matrix rotations and vector mathematics. Motion data from the Mycestro was then used to control these rotations. This code added features to the Mycestro that enabled the company to double its potential market.</li><li>• Managed shipping department by organizing over 3500 customer records in Excel, testing units for quality, and packaging and mailing all incoming orders.</li><li>• Attended patent strategy and business development meetings, and gave sales presentations to potential investors.</li></ul>	Ann Arbor, MI May 2016 - Present  Bedford Hts., OH May 2015 - Sept 2015
<b>STUDENT ACTIVITIES</b>	<b>University of Michigan Marching Band</b> <i>Trumpet Player</i> <i>Manager, MMB Merchandise Staff from 2014-2015</i> <i>Treasurer, Tau Beta Sigma Honorary Band Society from 2015-2017</i>	Aug 2013 - Present
<b>TECHNICAL SKILLS</b>	<b>Programming Languages:</b> Proficient in C, C++, and Python; familiar with HTML <b>Software:</b> Microsoft Word and Excel, MATLAB, LaTeX, Git <b>Hardware:</b> Experience designing custom PCBs using Eagle and soldering by hand	
<b>HONORS &amp; AWARDS</b>	<b>Scholarships</b> Class of 1931 Engineering Alumni Scholarship, University of Michigan Society of Hispanic Professional Engineers Scholarship  <b>Other Honors</b> University Honors and Dean's List, University of Michigan (7 semesters) Eagle Scout, Troop 701 in Strongsville, OH	

References available upon request