

# Stuart Miller

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<b>Objective</b>	To obtain an internship or co-op for 2018 in the field of embedded software engineering.		
<b>Education</b>	Missouri University of Science and Technology (Missouri S&T)		May 2019
	<b>M.S. Computer Engineering</b>		
	Missouri University of Science and Technology (Missouri S&T)		May 2017
	<b>B.S. Computer Engineering</b>		<b>GPA: 3.8/4.0</b>
	<i>Minors in Computer Science &amp; Mathematics</i>		
	<i>Coursework in C/C++ programming, embedded systems, &amp; artificial intelligence</i>		
<b>Work Experience</b>	Garmin International		Olathe, KS
	<b>Software Engineering Intern, Aviation</b>		Oct. 15 - Aug. 16
	<ul style="list-style-type: none"><li>• Developed and tested software used on aviation displays and user interfaces</li><li>• Worked closely within the constraints of hardware to write effective embedded C code</li><li>• Completed a refactor of part of Garmin's module testing environment to allow for enhanced software verification at the system level</li><li>• Participated in software development lifecycle activities such as code reviews, software verification, and code coverage analysis</li></ul>		
	The Boeing Company		St. Louis, MO
	<b>IT Intern, Business Systems Data Warehouse &amp; Analytics</b>		May 15 - Aug. 15
	<ul style="list-style-type: none"><li>• Worked closely with offshore resources to manage the transition of finance web portal code from Adobe Coldfusion to ASP .NET</li><li>• Provided analysis on existing PL/SQL Queries and database structure</li><li>• Used Tableau analysis software to create data visualizations and dashboards</li></ul>		
	Missouri S&T IT Department		Rolla, MO
	<b>IT Help Desk Senior Student Technician</b>		Oct. 14 - Present
	<ul style="list-style-type: none"><li>• Investigate computer related problems, determine the cause, and implement a solution or coordinate with the appropriate department to resolve the issue</li><li>• Serve as a point of escalation for demanding issues</li><li>• Oversee training of new employees and implementation of new policies</li><li>• Operate and manage the 3D printers available to faculty and students</li><li>• Repair laptops as a Dell-certified technician</li></ul>		
<b>Skills</b>	Embedded C Programming	Digital Circuits	Software Verification
	C++ Programming	Network/Security Concepts	Git Version Control
	ARM Programming	Artificial Intelligence	JIRA Workflow
	Microcontroller Architectures	Linux Systems	L <sup>A</sup> T <sub>E</sub> X

## Projects

Senior Design Project, Missouri S&T

Spring 2017

### Digital Music Transcriber

- Designed an algorithm to convert audio input from musical instruments to written music using a Texas Instruments C2000-series processor
- Implemented code to interface with open-source display and audio-processing libraries
- Worked as part of a development team, participating in weekly standups and collaboration meetings
- Acted as team leader to help manage schedules and coordinate documentation

Missouri S&T Artificial Intelligence Tournament

Fall 2016

### Third Place Winner

- Designed a C++ program capable of playing competitive chess
- Utilized AI state-space search techniques such as minimax, alpha-beta pruning, and quiescence.
- Defeated both human and other artificial intelligence opponents to win third place

## Honors & Activities

Missouri S&T Chancellor's Scholarship

Missouri Higher Education Scholarship (Bright Flight)

James C. Grimm Electrical & Computer Engineering Scholarship

Tau Beta Pi - National Engineering Honor Society

Kappa Kappa Psi - National Honorary Band Fraternity

Principal Oboist - Missouri S&T Symphonic Orchestra and Wind Symphony