

# PAUL CROUTHER

4110 COLLEGE MAIN ST. #17. BRYAN, TX 77801 - [WWW.PAULCROUTHER.COM](http://WWW.PAULCROUTHER.COM) - (281) 508-5831

<b>EDUCATION</b>	<b>Texas A&amp;M University, College Station, TX</b> <b>Bachelor of Science, Electrical Engineering</b> <i>Graduating Fall 2016</i>	Major GPA: 3.024/4.000 Cumulative GPA: 2.824/4.000
<b>RESEARCH EXPERIENCE</b>	<b>Texas A&amp;M University, Electrical and Computer Engineering Dept.</b> <i>Undergraduate Research Scholar</i> <ul style="list-style-type: none"><li>- Designing an autonomous driving system based on reinforcement learning with artificial neural enhancements.</li><li>- Developed software-level signal processing and machine learning platform for reduced feature set EEG classification implemented in MATLAB and C. Applications in emotion and anxiety detection.</li></ul>	<i>Summer 2013 - Current</i>
<b>INDUSTRY EXPERIENCE</b>	<b>ARM, Austin, TX</b> <i>Intern, Architecture and Technology Group, Verification Enablement</i> <ul style="list-style-type: none"><li>- Developed a combinatorial optimization test template generation tool based on the knapsack problem that ranks templates based on code coverage, test time, and uniqueness of preferences. Implementation in Python and SQL.</li><li>- Developed a tool for verification of FP64 floating-point interesting data. Implementation in C++.</li></ul>	<i>Summer 2015</i>
	<b>AMD, Austin, TX</b> <i>Co-op Engineer, Kaveri/Godavari Product Development Engineering</i> <ul style="list-style-type: none"><li>- Completed system-level performance binning and platform JTAG register-specific debug with internal debug tools and programs.</li><li>- Performed platform-level test and fuse validation with ruby scripts by parsing markup configuration files for high priority, critical path, Kaveri and Godavari mobile and desktop OPNs.</li></ul>	<i>Summer 2014, Spring 2015</i>
	<b>Computer Repair, League City, TX</b> <i>Computer Repair and Optimization Technician</i>	<i>2006-2012</i>
<b>LANGUAGES</b>	Python, Assembly, Java, Verilog, C++, C, JavaScript, Ruby, Git, LaTeX, Perl, SVN, YAML, XML, Shell environments, MATLAB	<i>(Descending order of familiarity)</i>
<b>TOOLS AND PROGRAMS</b>	Visual Studio, Synopsys VCS, Cadence, JTAG, GDB, Valgrind, Octave, R, JMP, Minitab, GAMS, GitHub, optimization and machine learning (scikit-learn) libraries.	
<b>OPERATING SYSTEMS</b>	Windows, Linux, Unix-like environments, OSX, iOS, Android	
<b>RELEVANT COURSES</b>	ECEN 489 Algorithms in Structural Bioinformatics - <i>Machine learning</i> . CSCE 350 Computer Architecture and Organization - <i>ARM/MIPS</i> . ECEN 449 Microprocessor System Design - <i>Linux/kernel drivers</i> . ECEN 454 Digital Integrated Design - <i>Cadence, Synopsys, RTL-logic</i> . CHEN 689 Nonlinear Global Optimization - <i>Convex analysis</i> . ECEN 325 Electronics - <i>Analog/mixed-signal design</i> .	<i>(Combined graduate and undergraduate courses)</i>

✉ [pacrouter@peoplepc.com](mailto:pacrouter@peoplepc.com)

🐙 <https://github.com/paulcrouther>

in <http://www.linkedin.com/in/paul-crouther-47221b52>

📖 <http://stackoverflow.com/users/5093998/pcrouther>