Mitchell J. Dzurick

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EDUCATION

B.S. Electrical & Computer Engineering | **University of Arizona** Fall 2016 - Spring 2020
GPA: **3.667**/4.00

Member | **Eta Kappa Nu IEEE** Spring 2018 - Present
- Awarded to top 25% of 2nd semester Sophomores.

Dean's List | **University of Arizona College of Engineering** Fall 2016 - 2017
- Award for Academic Distinction throughout the 2016 school year.

EXPERIENCE

Student | **University of Arizona Computer Architecture** Fall 2018 - Current
- Constructing 32 bit general purpose pipe-lined processor that runs 32 bits MIPS.
- Datapath utilizes full-forwarding & hazard detection components.
- Introduces Branch Prediction & Speculative Execution.
- Plan to implement Vector Processing Unit.

Software Security Engineer | **Intel Corporation** Summer 2018
- Analyze large datasets using an Artificial Neural Network.
- Create embedded Linux distributions with Yocto Project.
- Develop simple Intel Software Guard eXtension program.

Lab Assistant | **University of Arizona Computer Programming II** Spring 2018
- Provide Office Hours to help students with C++ programming.
- Requires knowledge of data structures and algorithms.
- Projects have time constraints that require algorithm optimization.

Student | **University of Arizona Digital Logic** Fall 2017
- Constructed a 32-bit single cycle processor in Verilog.
- Ran simulation of a processor on a Nexys 4 DDR Artix-7 FPGA board.

INVOLVEMENT

Chair | **University of Arizona IEEE** Summer 2018 - Present
- Gain social skills in a professional environment in order to benefit the student organization.
- Organize and teach a soldering workshop for the Microcontroller Design class.

Vice President | **University of Arizona H.A.C.K.S** Summer 2017 - Present
- Use Proxmox VE hypervisor to create and manage multiple virtual machines.
- Teach system administration and Cyber Security.

SKILLS & KNOWLEDGE

- *Languages & Software:* C, C++, Bash Scripting, Python, Java, Matlab, Verilog, basic x86 & MIPS Assembly, qtspim, UML.

- *Technical Skills:* Operating Unix machines, Basic Linux Binary Analysis, Program Debugging, Basic Circuit Analysis, Soldering.