

Alex Jones

Double Major in Electrical and Computer Engineering
Auburn University 3.86 GPA
Developed interest in Robotics and Embedded Software

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WORK EXPERIENCE

GAVLab, Auburn AL — Undergraduate researcher

SEPTEMBER 2018 - JANUARY 2019 - C++ - OpenCV

Designed and implemented a low-latency computer vision algorithm to be deployed onto an ARM processor as part of an FPGA software support package.

Starrett Bytewise, Columbus GA — OCR researcher

MAY 2018 - AUGUST 2018 - C++ - Python - Tensorflow - OpenCV

Designed and implemented OCR algorithms using machine learning as the core recognition and using a combination of machine learning and stroke width transform for character localization and segmentation.

ADTRAN, Huntsville AL — Machine Learning Intern

MAY 2017 - AUGUST 2017 - Python - Tensorflow

Responsible for developing Machine Learning software for the automation of product quality control research. Mainly research based in computer vision.

Naval Research Lab, Stennis Air Force Base — Software Intern

MAY 2016 - AUGUST 2016 - Java - OpenCV

Rewrote proprietary compression algorithms to improve speed and compression quality for use in aviation.

Extracurriculars

SPARC President - Spring 2019

Robotic Arm - ongoing

Currently working on augmenting an arm developed by the DOD to add absolute positioning data and visual processing, with the ultimate goal of having the arm play chess.

IEEE Hardware Competition Mechanical Lead - ongoing

Currently working as the lead of a team of 6 other students to design the mechanics of a robot competing in the 2019 IEEE Southeast-Con Hardware Competition.

Robotics Team - 4 years at Grissom High School

Build team captain for 3 of 4 years on the team.

PROFFICIENCIES

PROGRAMMING LANGUAGES

C++, C, Python, Verilog, Java,
MATLAB, LabView

APP. SPECIFIC LIBRARIES

OpenCV, TensorFlow,
Hadoop, Tesseract, TWAIN,
WIA

EMBEDDED SYSTEMS DEVELOPMENT

PIC Microcontrollers,
Arduino,
Raspberry Pi,
Xilinx FPGAs/MPSoCs

CAD

Solidworks, SolidEdge,
Autodesk, Multisim, KiCAD,
OpenRocket, Openscad

VERSION CONTROL GIT and Mercurial

AWARDS

National Merit Finalist
Auburn Dean's List

EVENTS

HackHSV 2017 - 1st
Space Apps HSV 2017 - 3rd

