Andrew P. Mauragis

Jenison, MI 49428

(269) 370-1307 — andrew@mauragis.com

SUMMARY

A skilled embedded systems engineer with six years of experience ranging from RTOS applications to camera system validation. Articulate, excellent analytical skills, results driven, and focused on continuous improvement.

EXPERIENCE

Camera Systems Engineer

January 2015 to Present May 2012 to August 2012

Electronic Design Intern

Gentex Corporation — Zeeland, MI

• Designed experiments to analyze and improve camera production yield reducing scrap volume by 5%

- Developed and automated test systems for focus, color, and parametric performance for internally developed cameras and launched a continuous integration process with historical tracking for the software
- Integrated new cameras with custom in-house framegrabber
- Designed and supported launch of custom lens aligner (for camera assembly)

Embedded Software Engineer

July 2013 to December 2014

Precisive — Woburn, MA

- Developed, integrated, and tested real-time analyzer firmware in C++ in QNX and on bare-metal
- Implemented a controlled manufacturing release deployment system tied to version control
- Designed an on-instrument unified diagnostic system for collating and reporting health and error data
- Provided integration and manufacturing support for software testing

Oculus-ASR Engineer (Undergraduate Capstone)

August 2009 to May 2013

Aerospace Enterprise, Michigan Technological University — Houghton, MI

- Managed a communications sub-team of nine students as a project team leader
- Designed and implemented an RF (Amateur Band) communication system for satellite telemetry, command, and control
- Oversaw development of VxWorks driver for radio/flight-computer interface
- Redesigned satellite battery solar charge controller

Test Equipment Hardware Design Engineer

July 2010 to June 2011, August 2011 to May 2012

GE Aviation Systems — Houghton, MI

- Designed avionics functional board test equipment at the box and board level
- Integrated functionality tests by debugging test software and diagnosing problems in hardware
- Documented hardware development plans and lifecycle documents, including requirements verification and peer design review

RF Engineering Intern

June 2011 to August 2011

Orbital Sciences Corporation — Dulles, VA

- Developed test plans for the acceptance and qualification of an S/L-Band antenna
- Drafted requirements for a multi-program radio ground support test rack
- Designed a NEC model for a high-gain monofilar helical antenna to meet specific size and radiation pattern requirements

EDUCATION

B.S. Electrical Engineering and Computer Engineering

Michigan Technological University — Houghton, MI

TECHNICAL SKILLS

- Software Development (C, C++, Java, Python, Assembly, MATLAB, LabView)
- Version Control (Git, SVN)
- Embedded Experience (ARM, AVR, QNX on ARM)
- Schematic Capture/PCB Layout (Mentor, Eagle)
- Electronic Design
- Engineering Statistics (DoE, t-testing, Gage)
- Hardware/Software Integration Experience
- Technical Documentation (MS Office, LATEX)
- Capable with Windows, Linux, Mac OSX

August 2008 to May 2013

GPA: 3.62/4.00