William Truong

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WORK EXPERIENCE

Software Developer II, GA-ASI, 2011 - present, (San Diego, CA)

Responsibilities

- Work with project engineers, vendors, and customer to create system and software level requirements, storyboard proposals for new features, define new software interfaces, write system test procedures, and implement design for hard real time flight and soft real time ground components on MQ-1/MQ-9 Unmanned Aerial Systems **[C/C++, Python, POSIX, Linux, VxWorks, MIL-STD-1553, TCP/IP, Pthreads, Qt, X11/Motif, XML]**

MQ-9 AFSOC Software Team, Jan 2014 - present

- Lead software developer of new team formed to increase MQ-9's multi-mission capabilities in regards to increased flight endurance, decreased takeoff time, additional weapon support, and new ISR platforms for Air Force Special Operations Command.
- Within one year, the software team fielded 3 major system releases under 6 month release cycles, an unprecedented number for the existing software groups supporting the US Air Force, which currently run on 3-5 year software release cycles.

MQ-9 Brimstone Integration, Oct 2013 - Dec 2014

- Lead a software team to demonstrate the potential capabilities of integrating MBDA's missile platform onto the MQ-9 platform in a short span of 3 months.
- Sucessfully demonstrated during trials with 9 direct hits involving static, accelerating, weaving, fast and very fast remotely controlled targets.

MQ-1 USAF UAV Team, Oct 2011 - April 2012 (Under Contract), April 2012 - Oct 2013

- Developed enhancements and resolved known anomalies in forward looking development branch that eventually made way to several software releases for multiple customers [C/C++]

Software Engineer II, Northrop Grumman Information Systems, 2009 - 2011, (Sacramento, CA)

Software Lead for ELINT (ELectronical INTelligence) Subsystem, Jan 2011 - Oct 2011

- Worked closely with program management, system engineers, electrical engineers, sensor operators, and integration team to field the last release of the ELINT subsystem.

Software Engineer for ELINT (ELectronical INTelligence) Subsystem, Jan 2009 - Jan 2011

- Aided senior software engineer in developing Linux PCI kernel served to communicate with FPGA daughter card that commanded the ELINT sensors **[C, Linux Kernel, MIL-STD-1553]**
- Thread-safed proprietary event-driven messaging interface used by subsystem to allow for the development of multi-threaded applications **[C, Pthreads, TCP/IP, DNS-SD]**
- Developed an event-driven server daemon that resided on subsystem responsible for initialization and rerouting of messages between air and ground components **[C++]**
- Developed and documented command line test utility for electrical, test, and field engineers to verify and validate subsystem hardware **[C, yacc, lex]**

EDUCATION

B.S., Computer Science, University Of California, Davis, 2009

SKILLS

C++, C, Python, Java, TCP/IP, MIL-STD-1553, Motif, Qt, Android, VxWorks, LINUX, POSIX (Pthreads, cstdlib, sockets), STL, yacc, lex, Git, SVN, Clearcase