Clinton Bowen

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EDUCATION

CAL STATE NORTHRIDGE

MASTERS IN APPLIED MATHEMATICS

Expected May 2015

BS IN APPLIED MATHEMATICS

May 2010

LINKS

in: LinkedIn

SOFTWARE

LANGUAGES

C

C++

C#

Java **MTFX**

Matlab

Mathematica

Python

SQL (MySQL, PostgreSQL, SQLite)

LIBRARIES, APIS, AND FRAME-**WORKS**

.NFT

Sage Python

SciPy

RSA BSAFE

Gurobi

CPLEX

Django (and GeoDjango)

PeachFuzz

MiniFuzz

DEVELOPMENT OPERATIONS

IC-Agile Certified Professional Secure Development Lifecycle

Practitioner

Top Secret SCI Active (No FSP)

SKILLS

SYSTEM ENGINEERING

Subject Matter Expert (SME) on C/A and

CRYPTOGRAPHY + CYBER-SEC

Engineering Standards

SME on FIPS 140 to 202 • Cyber-Security Framework • SME on Special Publications

800 Series • RFCs • CNSSPs

EXPERIENCE

BOOZ ALLEN HAMILTON ENGINEERING SERVICES, LLC

TECHNOLOGIST

June 2010 - Present | El Segundo, CA

- Designed a software architecture for SAASM Mission Planning System (SMPS).
- Provided cryptographic analysis for a GPS CNAV project.
 Identified feasible solutions

 - Assisted in drafting a cryptographic protocol and high level overview of key management
 - Consulted and developed software for prototyping the cryptographic
- Designed and prototyped a cradle to grave management system for NIST compliant cryptographic keys that met NIST SP800-53 SC-12 (1) and (2).
- Developed a random number generation test suite in C#
- Built and demonstrated Zigbee 802.15.4 wireless data transfer software in C to potential business partners.
- Developed & tested a Reed-Solomon error correction code library for software defined radio project.
- Developed & tested cryptographic software for a C/C# based GPS receiver.
- Developed & demonstrated SHA-3 based embedded C software for a PIC24HJ12GP201I Controller
- Corrected NIST test vectors for SHA-2 based digital signature algorithms.
- Contributed the 'K' in SHAKE for NIST FIPS-202.
- Directing weekly technical meetings between a team of software developers and clients for project management.

RESEARCH

LIE GROUPS, HOMOGENEOUS MANIFOLDS, AND COMPLEX PROJECTIVE SPACES | Co-Authored with Mayra Moran and

ATOUR BEAN

May 2009

Partially funded by NSF Grant DMS-0502258

MESSAGE OPTIMIZATION OVER GPS CIVIL NAVIGATION SIGNALS | SUBMITTING TO ION GNSS+ 2015

2015

In this paper, we pose the problem of maximizing the number of special messages allowed while observing the messaging constraints defined in IS-200 and IS-705 for the GPS signals L2C and L5. The problem is posed using a graph of feasible message sequencing and then modelling the graphs as linear constraints for a linear programming (LP) problem.

PRESENTATIONS

2011	\Mhat the	Uncle in	ELIZZ T	acting?

BlackHat, DEFCON, SHA-3, & DIAC: The Summer Conferences 2014

2014 Configuration Management within Booz Allen Hamilton

and an Introduction to C# Phalanx

2014 Message Optimization over L2C and L5

2013 Error Correction Codes over Finite Fields

2012 Mission Planning Optimization

2010 Reed Solomon Error Correction Codes