

**Gilbert M. Orcilla**  
**9768 Mayfair Street, Unit F, Englewood, CO 80112**  
**Cell Phone (719) 694-6673**  
**Email: mathnasiumcos@gmail.com**

## **OBJECTIVE**

Thorough and detail oriented Computer Scientist professional seeking a Computer Scientist position at National Institute of Standards and Technology (NIST) to provide expertise in software requirements analysis, research and development (R&D) of hardware and software, software testing, integration, and installation; and maintenance of complex computer systems.

## **WORK HISTORY**

June 2019 Computer Engineer, Patent Examiner

May 2020 United States Patent and Trademark Office, Denver, CO

Assessing and investigating applications for patent and ascertaining the safety, usage, and genuineness of inventions

Performing technical analysis of the descriptions and claims made in applications

Ascertaining the novelty of the invention and writing official correspondence

Reading technical literatures, and various technical documents online in library for ensuring novelty of applications

June 2014 Computer Scientist, Cyber Situational Awareness and Analytics Division (CSAAC)

May 2018 Ft Meade, Maryland

Tracked and monitored analytics requirements; software versions, scheduled, and conducted IPT's and participated CCB for assigned project and attended TEM

Participated pre-production testing, and conducted post testing meeting to discuss lessons-learned; and future testing road maps, monitoring release management (JIRA and Confluence)

Prepared documentation prior to schedule IBR's and set-up a schedule and invitations for all the stakeholders

Evaluated companies RFI's submission and participated in meetings on SOW's; recommended new existing technology to augment current infrastructure

Updated division chief during weekly engineers meeting that could possibly impact assigned projects

Conduct research and development (R&D) activities focused on improving assigned projects to meet the mission goals

Provided subject matter expertise to all joint information operations range, defense, engineering & research network connections, coordination efforts and reporting

Coordinated with CSR Program Manager in support of the development, and implementation of the JIE/JRSS components for utilization in the virtual training environment

Ensured all division processes are capture and recorded IAW Branch/Division Chief guidance, policy, and approved template.

Provided subject matter expertise to all joint information operations range, defense, engineering & research network connections, coordination efforts and reporting

Aug 2011 Math/Computer Adjunct

June 2014 Pikes Peak Community College, Colorado Springs, Colorado

Teaches developmental mathematics/computer and concepts, courses are under quarter format

Assists students, providing extra instruction, before or after each teaching session Built and use interactive web-based performance training systems

July 2010 TIU Engineer/Integrator/IT Specialist

Jan 2011 Distributed Multi-Echelon Training System (DMETS), Missile Defense Agency, JNIC

Responsible for building training scenario using TGx and TMC Troubleshooting threat simulation anomalies and integration of new scenario Operates GMD System Trainer (DGST), Embedded Test (ET), and C2BM Familiarization with TMSS, 17 and 19 column file data from TMC

Familiarity with IRIX, Solaris, Oracle (PL/SQL), MySQL, Apache, Php, Linux, Visual Basic, ArcGIS MDST, and Windows Platform (Microsoft Access, Excel, Powerpoint, Words, and Publisher), SPSS/SAS, Standard Query Language

Sept 2005 Systems Engineer III/IT Specialist

June 2010 Distributed Multi-Echelon Training System (DMETS), Missile Defense Agency, JNIC

Operates and configured DMETS control center (DCC)

Integrates and tests scenarios with Command and Control Ballistic Missile Control (C2BMC) and GMD Fire Control (GFC)

Provides sound justification to C2BMC and GFC SME after each scenario run Creates new scenarios using remote environment (RE)

Familiarity with missile defense doctrine, concepts of operation (CONOPS), tactics, techniques, and procedures (TTPs)

Experiences with human-in-the-loop real time simulations,

Experiences with DBMS technology such as Oracle, DB2, and SQL Server Provides analysis using WRR-ATS (Analysis Tool Suite)

Knowledge of Systems Engineering, Integration and Testing Aptitude in Network troubleshooting

Knowledge of C++ programming, Powerbuilder and PERL Knowledge of Red Hat Linux (Command Line/Scripting) and Unix, VD/VDI, TCP/IP, NFS

Knowledge of HTML,XHTML, XML, CSS, MS SQL, and AJAX Knowledge of SCORM ADL e-learning System and CMMI Ability to operate C2BMC and GFC console  
Wrote and documented DMETS training curriculum and checklist (MIL-PREF) Operates and interprets Processing Display System-Migration (PDS-M) console  
Familiarity with Department of Defense Architectural Framework (DODAF), UML, SysML, SOA (Service Oriented Architecture), Software validation and Testing, Software Requirements Development utilizing Rational Requisite Pro Software Familiarity with Mathlab, Maple, and Mathematica Software (Modeling) and STK ,Knowledge of Software Development Life Cycle, Black Box Test Plan, Test Cases, and Verification and Validation, Familiarity with Software Architecture; Knowledges and Practices of Agile developments, Documenting Configuration Management as well as tracking installed hardware and software, Providing organization with full range support for hardware and software (trouble shooting); provide cloud software (Platform as a Service and Software as a Service) design support  
Knowledge of Intrusion Prevention System, Intrusion Detection System , vulnerability scanning—Microsoft Baseline Security Analyzer 2.2

Oct 2006      Director/Instructor/Owner Mathnasium Learning Center  
Mar 2010      Mathnasium Learning Center, Colorado Springs, CO

Provide training to instructors on weekly basis  
Coordinates “No Child Left Behind” program through Colorado Department of Education  
Evaluate and provide feedback to parents in regards to their kids progress Responsible for financial and marketing ideas, project imlementation, and strategic planning  
Do statistical analysis (Cognos) to strategize marketing campaign to draw customers to mathnasium brand, Project Management, lead process improvements though Lean process, Kaizen, and Six Sigma

June 2005      Wargame Engineer (Certified Smart Round-Boecore)  
July 2005      Nimble Titan 2005, JNIC, Schriever AFB, CO

Apply knowledge of missile defense concepts to the testing and execution of computer-based missile defense wargame  
Operate player workstations to determine whether they are functioning as designed and displaying information that is correct, reasonable, or logical  
Execute complex software systems in support of integration, software development, testing, and troubleshoot configurations

May 2005      Associate Professor of Mathematics  
May 2006      Colorado Technical University, Colorado Springs, Colorado

Teaches developmental mathematics and concepts, courses are under quarter format Assists students, providing extra instruction, before or after each teaching session

Built and use interactive web-based performance training systems

Oct 2004      Guest Teacher of Mathematics

May 2005      Districts 20 and 49, Colorado Springs, Colorado

Taught elementary, middle school, and high school level mathematics, including student with special needs, and talented kids

July 1995      Active Duty, United States Air Force

Oct 2004      Missile Warning Operator-Crew Chief (07/01-07/02)

11th Space Missile Warning Squadron, Schriever AFB, Colorado

Manually collected and processed infrared sensor data from the \$ 2.9 B Defense Support Program constellation to provide theatre commanders assured warning of missile launches and other threats.

Performed in-depth assessment for computer generated events to provide tactical event messages to theatre and President/Secretary of Defense ensuring timely dissemination of warning to theatre Commander-in-Chief (CINC's)

Orbital Analyst-Crew Chief (07/98 – 07/02)

1st Command and Control, Cheyenne Mountain Air Force Station, Colorado

Task 22 worldwide sensors (BMEWS, PAVE-PAWS, and PARCS) to provide positional data for over 10,000 objects orbiting the earth's surface

Maintained the accuracy of the worldwide satellite catalog by providing expert orbital analysis on all manmade satellite utilizing Satellite Tool Kit (STK)

Monitored/reported the operational readiness of individual Space Surveillance Network sensors to USSPACECOM and 21st Space Wing (Air Force Space Command)

Provided critical space object information to 14th AF, NASA, Goddard Space Flight Center, Johnson Space Center, and AFSCN

Administrative Assistant (07/95 – 07/98)

331st Training Squadron, Lackland AFB, Texas

Provided personnel and administrative support for over 130 military personnel assigned to the training squadron

Responsible for review and accurate update of daily transaction register through Personnel Concept III (PC III)

## EDUCATION

Georgetown University – Data Analyst Certificate

University of Denver - Coding Bootcamp Certificate

Colorado Technical University – Bachelor of Science in Computer Engineering

Colorado Technical University – Master of Science in Computer Engineering

University of Texas – Courses toward Master of Science in Environmental Engineering

Technological Institute of the Philippines - Bachelor of Science in Civil Engineering

## MEMBERSHIP AND CERTIFICATION

Comp-TIA Security +

The Institute of Electrical and Electronics Engineers (IEEE)