

Senior Principal Analyst Senior Principal Analyst Senior Principal Analyst - Torch Technologies
Madison, AL Senior level software developer position with potential for professional development
and growth. Work Experience Senior Principal Analyst Torch Technologies - Huntsville, AL June
2019 to Present Team lead within the AICET program which is focused on countering emerging
threats in the context of IBCS (Integrated Air and Missile Defense Battle Command System) by
identifying new technologies, architectures, and algorithms and integrating existing weapons and
sensors. Typical tasks include conducting trade studies and simulations, analyzing data, software
prototyping, defining requirements. Software Engineer AEgis Technologies - Huntsville, AL July
2013 to May 2019 Acting in the capacity of a SCRUM team member and a small team lead, worked
on various government and commercial simulation and training products such as Unmanned Aerial
Vehicle simulators and a stinger missile dome trainer. Typical tasks included writing, maintaining
and enhancing image generators, instructor operator stations, vehicle flight dynamics, sensor
imagery models, network communications protocols, video streaming capabilities, UI's, after action
review and scoring subsystems. The development was done mainly in C++ and Python on both
Windows and Linux using boost, OpenSceneGraph, OpenGL, GL Shading Language (GLSL),
FFMPEG, Distributed Interactive Simulation (DIS), wxWidgets. A few prototype projects involved
using Unity and Unreal. Build and version control tools used included Visual Studio, Eclipse, QT
Creator, cmake, SVN, Git. A cloud-hosted web-based instructor operator station also involved web
development using Python Django, docker and AWS. Software Engineer SAIC - Huntsville, AL
February 2012 to June 2013 Working as a member of a SCRUM team, performed various tasks in
the design and development of a 3-tiered army aviation mission planning and management
application. Major responsibilities included designing and building DB schemas, Data Access,
Business Logic and Service Layers, Web services, and Client GUI's in C# utilizing WCF, WPF,
Infragistics, SQL Server, Visual Studio, TFS. Software Developer Intergraph Corporation -
Huntsville, AL May 2001 to February 2012 Under minimum supervision, planned and conducted a
variety of programming assignments in the development, maintenance, and testing of Smart 3D
plant design software, including design and development of front-end user interfaces, middle tier

components, and integration with back-end DBMS (Oracle, SQL Server). Assignments required the application of Object Oriented Programming principles, theories, and concepts on a Windows platform using C++, .Net (C#, VB.NET), COM, ATL, VB 6.0, VB Script, XML, relational databases (MS SQL, Oracle), UML, Rational Rose, Microsoft Visual Studio IDE, Team Foundation Server. Main responsibilities included: - Integration of a 3rd party VHL module into the Drawings system. Task required complex manipulation of 2D and 3D geometry primitives and extensive use of 3rd party and in-house Math libraries. - Maintenance and enhancement of the application infrastructure handling the persistence layer, metadata, business logic, and rules engine. - On-site and off-site training, support, consulting, and software customization for customers of 3D plant design software. Education B.S. in Computer Science Jacksonville State University - Jacksonville, AL August 1998 to April 2001 University for National and World Economy March 2001 Skills .net, C#, C/c++, C++, Django, Docker, Git, Html, Mfc, Wcf, Python, Keras, Tensorflow, Ruby, Rails, Ruby on rails, Svn, Vb.net, Visual basic, Visual basic 6, Matlab (Less than 1 year) Links <https://www.linkedin.com/pub/plamen-ranguelov/66/57b/92b>

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