About EmbeddedPlus….

- Leading-edge technology firm formed to provide custom software development and systems engineering services
- Small, Woman-Owned, HUBzone Business
- 100% client repeat rate
- Headquartered in Tempe, Arizona
- Technological expertise to deliver customized, rapid, practical solutions
- Controlled growth of 200% in two years during tough economic times
- Organization working towards ISO accreditation and CMMI assessment

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Boeing Partnership

- Selected by the Boeing-Phantom Works for the DoD Mentor Protégé program due to expertise in the areas of:
  - UML for systems and software
  - Object Oriented techniques
  - Development and verification tools
  - FAA DO-178B Certification
  - Modeling and Simulation
- Attended Boeing Corporate Leadership Training and incorporate Boeing Best Practices in our processes
- The Boeing FCS Team and EmbeddedPlus have signed a Memorandum of Understanding that authorizes EmbeddedPlus to utilize Boeing Unified Modeling Language training material with the intent to support Boeing projects and Boeing FCS Suppliers and Partners.
Recent Boeing Projects

EmbeddedPlus is committed to partnering with Boeing and has helped implement the right solutions for the following Boeing Projects:

- **DESIDE** - Providing development, training, and support for the Boeing Discrete Event Simulation Environment
  - Integrated HLA support into DESIDE Framework
- **7E7** – Provided Process Technology Technical Assistance
  - Simplifying Rose/ClearCase integration
  - Model Organization and Management
  - Model Reporting – Including ClearCase and Rose reports
  - Methodology style and guidelines
- **SOSE** - Provided Process Technology Technical Assistance to the System of System Engineering Team
- **Boeing Mesa** – Providing software assistance for legacy software upgrade
- **F-18** – Providing test automation based solutions for new R&D projects
- **ATM** – Providing software support
- **MMA** – System Engineering profiling capabilities
- **FCS** – Industry Assist to help Management Organization (SMO) use IBM Rational products efficiently and prepare for project growth and scalability.
Other Relationships of Interest

- **TRW** - Involved in process definition and simulation activities for the Joint Strike Fighter radio system
- **NGC** - Providing DOORs technical assistance for systems engineering and Project Management tools support for JSF
- **L3-Communications** - Defined and developed a Model Driven Architecture (MDA) Strategy that included executable UML for L3-Communication Multifunctional Flight Display Program.
  - Assisted L3-Communications in development of a UML based process that included automated V&V activities.
- **Lockheed Martin** – Middleware certification consulting
Industry Leadership

- Object Management Group (UML, SysML, CORBA, MDA, XML)
  - Voting Member of the OMG
  - Qualified Service Provider for OMG MDA Faststart program (only 25!)
- Embedded Space
  - Committee member/speaker at the Embedded System Conference
- FAA – DO-178B
  - Member of the FAA RTCA SC-190 committee updating DO178B
  - Committee chair member of the FAA Object Oriented Technology in Aviation [http://shemesh.larc.nasa.gov/foot/index.html](http://shemesh.larc.nasa.gov/foot/index.html)
  - Member of the Aerospace Vehicle Systems Institute. AVSI includes Boeing, Collins, Honeywell, and Goodrich
  - Presented at the multiple FAA software standardization seminars
  - Presented OO usage proposals to the joint FAA / JAA (CAST)
  - Invited to speak at the FAA / NASA 2004 Software Tools Forum
Expertise

- Expertise in Eclipse, UML, SysML, CORBA, HLA and XML
- Recognized by the industry and the FAA as experts in deploying:
  - C++ object-oriented techniques for safety (DO-178B) and mission critical SW
  - Leading the first UML/OO based Do-178B software certification with FAA
- Executable UML environments for:
  - System architecture
  - Modeling/simulation
  - Real-time code generation
- State-of-the-art integrated development and verification environments including architecture validation
- System and software process definitions, including tool integration to support customer defined processes
- Tool support including selection, implementation, and training
- Supporting organizations in OO/UML model based technology deployment and development

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EmbeddedPlus Provides…..

- Training and software support
  - Including implementation and selection of software technologies
- Research and development services
- Support for System and Software UML based process definition
  - Requirements management using DOORS
- Outsourcing Activities
  - Including software development and verification
- Integrated development environments
  - Define, develop and deploy
- Solutions for tool and process issues associated with new software technologies
- Solutions for UML-based Verification and Validation including automatic executable UML code generation
- Support for Legacy software and reverse engineering migration

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Technical Services

- We offer unbiased knowledgeable engineers to work with your team
  - Practical and realistic solutions
  - Select best tools to integrate into your development environment
  - Automate manual steps to improve productivity
- We accelerate tool deployment activities by offering consulting and implementation services including:
  - Tools and methodology support
  - Training
  - Consulting
- Tools supported include Rose, I-Logix, Artisian, XDE, ClearCase, ClearQuest, SoDA, and DOORS
- Development services such as modeling and verification
EmbeddedPlus specializes in providing Requirements Management (RM) and DOORS consulting for mission critical projects using UML for system and software development.

We can assist in the following areas:

- DOORS experts for mentoring services
- Traceability and impact management setup
- Rose/DOORS integration setup
- Rapid DOORS deployment integrated across teams
- RM Process definition and documentation
- Customized training integrated with your process
- Custom script (DXL) development
- Customized change process and documentation system
- Automated interfaces to other tools
Training Courses

- Customized training including tools and methodology
- Significantly lower cost
- Topics:
  - UML
  - Real-Time UML
  - Safety Critical software using DO-178B
  - Effective Requirements Management/Use Cases
  - Discrete event simulation
  - Tools training and Services (i.e. Rational Products, DOORS, ClearCase/ClearQuest)
  - Iterative process development
  - Object Oriented project management
  - CMM/CMMI
Modeling and Validation Tools

Contact EmbeddedPlus, A Small HUBzone, WOSB, to help with all of your COTS purchases and to develop custom tools for your project.

EPlus Test
Automatic test generation

UML Model
Rational- Rose, XDE, RSA, Artisan-RTS, I-Logix - Rhapsody

PolySpace
Run-Time Error Analyzer

System Validation
Network, Performance, and Resource

Real-Time Code generation

Post Processing

Safety Critical Framework

Host

RTOS

Target Hardware

Services
Training, Consulting, Mentoring, and Outsourcing

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EmbeddedPlus is located in the Silicon Desert and has access to experienced industry resources from fortune 100 companies (Honeywell, Intel, Motorola, General Dynamics)

- Large companies have issues with attracting and retaining experts and are known to have long lead times to hire new resources
- As a small company, we have flexibility necessary to attract and staff projects quickly

Extended team available from partners

- CDI Technical Services Division
- TekSci Technical Services
- Tool Partner’s Service Organizations

University Relationships

- Arizona State University
- University of Arizona
- Prairie View A&M (HBCU partner with Boeing in the DoD MP Program)

EmbeddedPlus has controlled growth by refusing work not in its area of expertise

EmbeddedPlus meets quarterly with Boeing-St. Louis and the Air Force for a formal Program Management Review that includes contract and resource review
We have the best experience and track record in deploying UML solutions in the industry.

We have an established relationship with the FAA for safety and mission critical software that is DO-178B compliant.

As a small company, we are flexible and can respond to most project needs.

Our experience with UML-based integrated development environments (including tools and processes) coupled with our real-time code generation capability is a powerful combination.

As a partner with Boeing in the DoD Mentor Protégé Program, we are looking for long term collaborations with Boeing projects.
For More Information:
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