



GMPT IS&S Controls Engineering AITE Project Brief

PROJECT NAME:

RiBeTT Report Generator

PROJECT CHAMPION: Thomas Giardini

PROJECT MANAGER: Alexander Makris

PURPOSE	<ul style="list-style-type: none">▪ Rewrite the “report generator” of the RiBeTT (Ring Behavioral Test Tool) Application
SCOPE AND DOMAIN	<ul style="list-style-type: none">▪ Scope is constrained to RiBeTT Application
BENEFITS	<ul style="list-style-type: none">▪ To the Organization▪ Users dread running a RiBeTT Report, which can take over an hour▪ Reports sometimes omit details, making review difficult▪ To the AITE participant▪ Learn PHP programming language▪ Work on a challenging high-profile project that has real value for GM Powertrain
MINIMUM EXPERIENCE REQUIRED	<ul style="list-style-type: none">▪ Basic proficiency with HTML and Javascript▪ Adept at least one of the following: C, C++, Java, Perl, Coldfusion, or ASP, PHP▪ Basic proficiency in “Big Oh” complexity analysis▪ Basic proficiency in SQL
RESPONSIBILITIES	<ul style="list-style-type: none">▪ Deliver a fully functional “report generator”, ready for production usage
MAJOR DELIVERABLES	<ul style="list-style-type: none">▪ Demonstrate basic proficiency in PHP▪ Fully coded “report generator”
SCHEDULE	<ul style="list-style-type: none">▪ 200 hours as follows:▪ Phase 1: (80 hours) Learn development environment, learn basics of PHP▪ Phase 2: (20 hours) Study database model▪ Phase 3: (100 hours) Code new “report generator”
COSTS	<ul style="list-style-type: none">▪ Online Userid▪ Online Desktop (dual display capable)▪ Account on mlmpgd10.dev.mpg.nam.gm.com
CURRENT STATUS	<ul style="list-style-type: none">▪ no work started



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PROJECT NAME:

Web-Based EACRTRAK: View EACRs and Tasks

PROJECT CHAMPION: Thomas Giardini

PROJECT MANAGER: Galen Kenyon

PURPOSE	<ul style="list-style-type: none"> Provide a web-based interface for EACRTRAK that allows users to view EACRs, tasks, and attachments.
SCOPE AND DOMAIN	<ul style="list-style-type: none"> EACRTRAK interface similar to the existing Access-based interface User authentication via GPLD Accessible to joint venture partners via the JV portal Ability to view EACRs, tasks (all task types), attachments, and accompanying objects, such as checklists
BENEFITS	<ul style="list-style-type: none"> To the Organization Accessible to all users, including joint venture partners Minimize distribution effort Consistent with IS&S strategy Expand knowledge base due to the commonality of the platform
MINIMUM EXPERIENCE REQUIRED	<ul style="list-style-type: none"> J2EE, Oracle 9i/10g, HTML, HTTP
RESPONSIBILITIES	<ul style="list-style-type: none">
MAJOR DELIVERABLES	<ul style="list-style-type: none"> EACRTRAK shell containing an EACR viewer.
SCHEDULE	<ul style="list-style-type: none"> n hours as follows: Phase 1: EACRTRAK shell Phase 2: EACR front-end viewer Phase 3: Task viewer Phase 4: Attachments viewer
COSTS	<ul style="list-style-type: none"> Online Userid Online Desktop
RISKS & OPEN ISSUES	<ul style="list-style-type: none"> Challenge of keeping the features of the web-based interface consistent with ongoing development of the Access-based interface.
CURRENT STATUS	<ul style="list-style-type: none"> New project, not yet started



GMPT IS&S Mechatronics Compute Infrastructure AITE Project Brief

PROJECT NAME: **Mechatronics Distributed Iterative Analysis Infrastructure**

PROJECT CHAMPION: Thomas J. Giardini, Jim Garrett

PROJECT MANAGER: Amar S. Bhatti

PURPOSE	<ul style="list-style-type: none"> Gather metrics generated by Mechatronics proof of concept build farm running Redhat Linux
SCOPE AND DOMAIN	<ul style="list-style-type: none"> Understand the embedded controller development environment especially Mechatronics area Understand grid computing and parallel processing and how it is applied in Mechatronics area Coordinate with users and record periodic metrics of the builds generated by proof of concept Generate reports based on the metrics gathered and how grid computing has benefited us Compare results already gathered from running targeted projects within windows with Linux Perform comparative analysis between results from windows and linux and create a report
BENEFITS	<ul style="list-style-type: none"> To the Organization <ul style="list-style-type: none"> More accurate and recorded Mechatronics build farm metrics between two platforms Improved build times and use of the correct OS to perform the grid computing needs of GMPT To the AITE participant <ul style="list-style-type: none"> Gain experience in grid computing and parallel processing and general project management Gain interpersonal skills and industry experience Gain valuable skills in Operating systems details and how it helps in distributed computing
MINIMUM EXPERIENCE REQUIRED	<ul style="list-style-type: none"> Basic knowledge of computer systems architecture Basic knowledge of networking protocols Hard working and willing to learn to enhance knowledge of computing environments
RESPONSIBILITIES	<ul style="list-style-type: none"> Understand the overall project, its scope and scheduled proof of concepts Work with the users to gather metrics and record them in an approved reporting format
MAJOR DELIVERABLES	<ul style="list-style-type: none"> Show overall understanding of current project plans Show working relationship and coordination with the users Build farm performance metrics report in an approved format Work with the data gathered from windows platform and apply that to Linux platform Deliver report containing comparative performance metrics data from Linux and Windows
SCHEDULE	<ul style="list-style-type: none"> 200 hours as follows: <ul style="list-style-type: none"> Phase 1: Extend the projects used for gathering metrics from windows to Linux Phase 2: Perform Basic maintenance to the build farm currently in the proof of concept stage 2 Phase 3: Build working relationship with the users to work with them in generating metrics Phase 4: Generate performance metrics report and supply it to the project manager
COSTS	<ul style="list-style-type: none"> Online User-Id Online Desktop User-ID on Mechatronics farm
RISKS & OPEN ISSUES	<ul style="list-style-type: none"> Report has to be approved and coordinated with the suppliers to generate accurate metrics
CURRENT STATUS	<ul style="list-style-type: none"> provide help in the project currently in the proof of concept phase 2