PLM World 05

Managing Student Projects in Teamcenter Engineering

Tord Dennis
Research Engineer
tdennis@cad.gatech.edu
College of Engineering
Georgia Institute of Technology
Atlanta, GA 30332-0140



Coursework at GT

ME4041

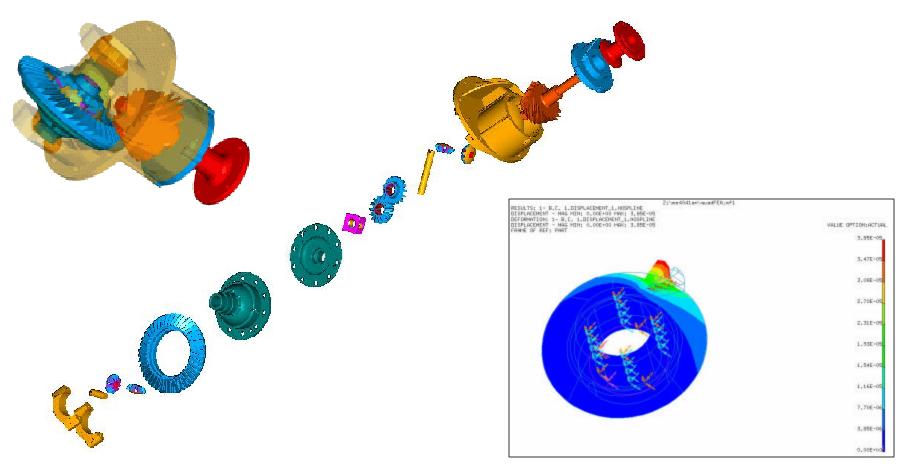
Interactive Computer Graphics and Computer-aided Design

- 3.0 Lecture Hours
- 1.5 Lab Hours

Prerequisiste: senior standing, ME2016.

Principles of interactive computer graphics hardware and software. Programming for interactive graphics with application to the solution of thermal and mechanical design problems.

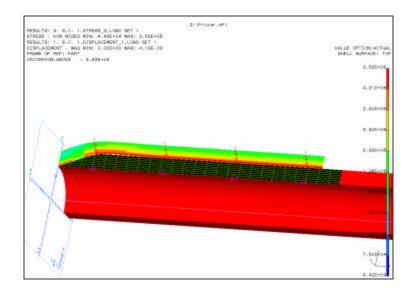
ME4041 Projects



http://www.ecs.gatech.edu/courses/me4041.html

tdennis@cad.gatech.edu

ME4041 Projects





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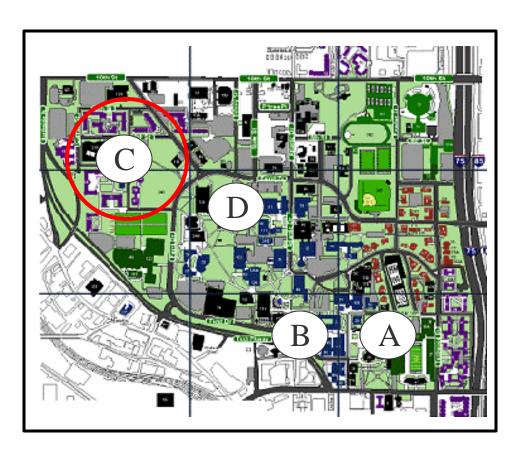
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gt motorsports



http://www.me.gatech.edu/gtmotorsports/

Distributed environment at GT



- A Central I-DEAS TDM server networking (T1 ethernet)
- A 2 WinXP labs in the A. French Bld
- B gt motorsports shop
- C personal student computers in West Dorms
- D 1 Win XP lab in the ME Bld

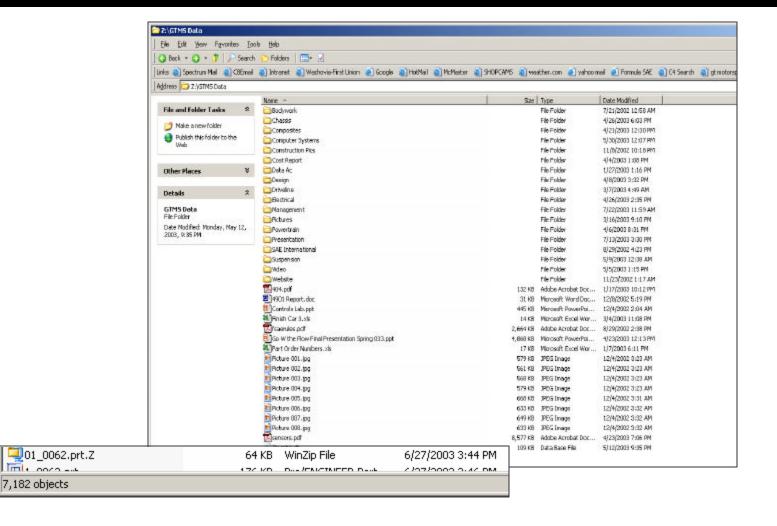
Software

- ► I-DEAS 10m2
- > TCEng 8.1.1.6
- ➤ NX Manager 2.0

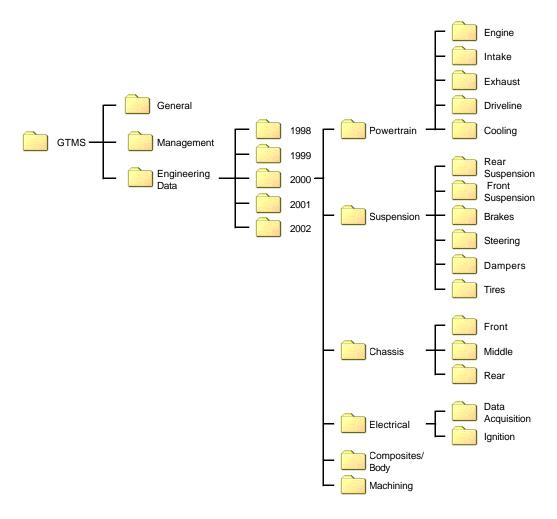


- Needs for Teamcenter Engineering
 - Repository
 - Search
 - Distributed Collaboration
 - Multi-Vendor CAD mgt

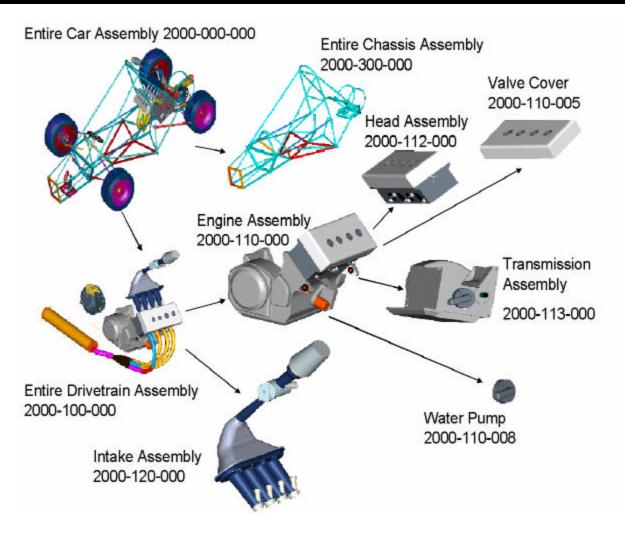
This is file management?



Proposed Folder Hierarchy



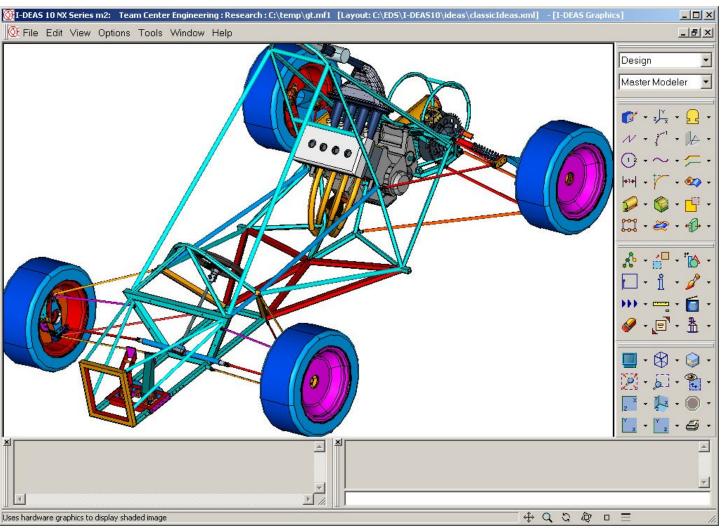
Top-down car design



Part numbering schema

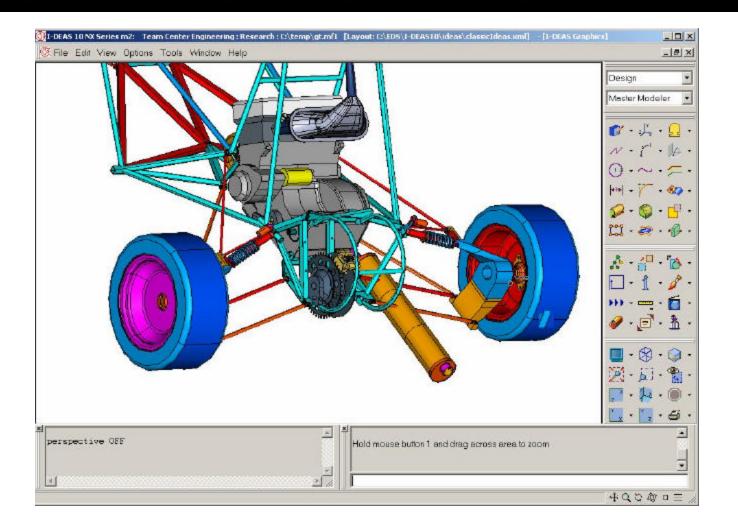
YYYY-MAS-ZZZ							
YYYY	Car Model Year						
М	Main Category	0 1 2 3 4	Entire Powertrain Suspension Chassis Electrical				
A	Sub Category	5 0 1 2 3 4 5 6	Powertrain Entire Engine Intake Exhaust Driveline Cooling	Suspension Entire Rear Suspension Front Suspension Brakes Steering Dampers Tires	<u>Chassis</u> Front Rear Middle	Electrical Entire Data Acquistion Wiring Harness/Ignition	
s	Sub Assemblies Within sub Category						
ZZZ	Part number (c	Part number (defaults to 000 if an assembly)					

Assembly in I-DEAS

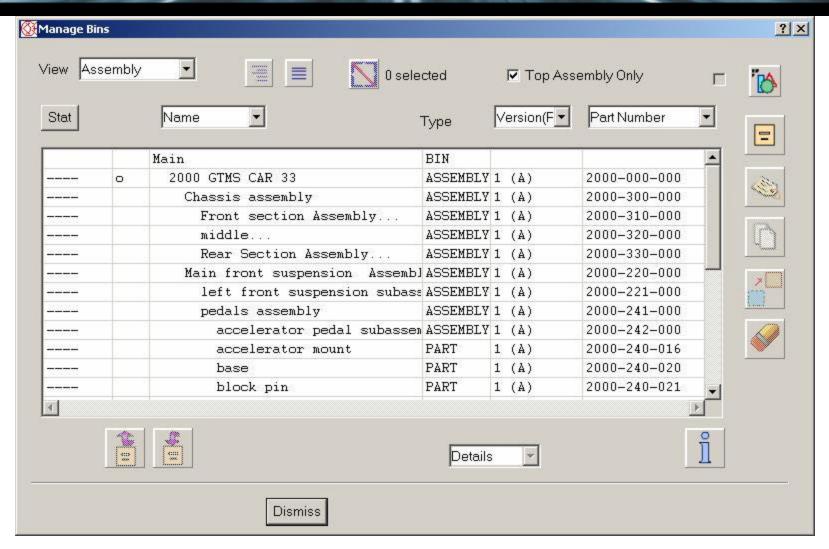


tdennis@cad.gatech.edu

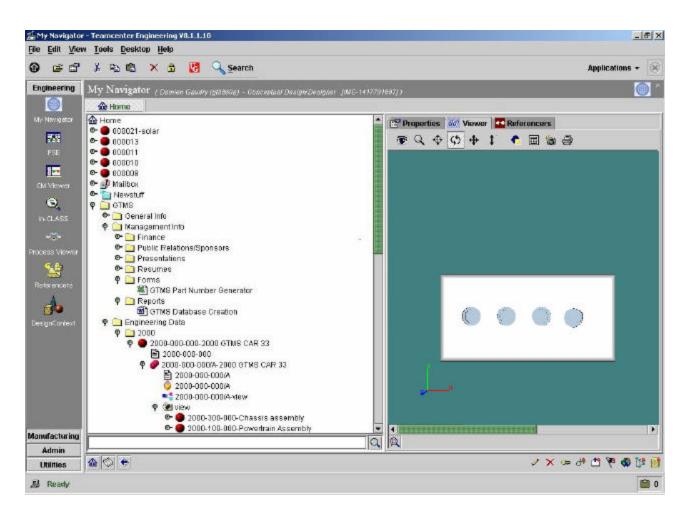
Assembly in I-DEAS



Assembly in Manage Bins

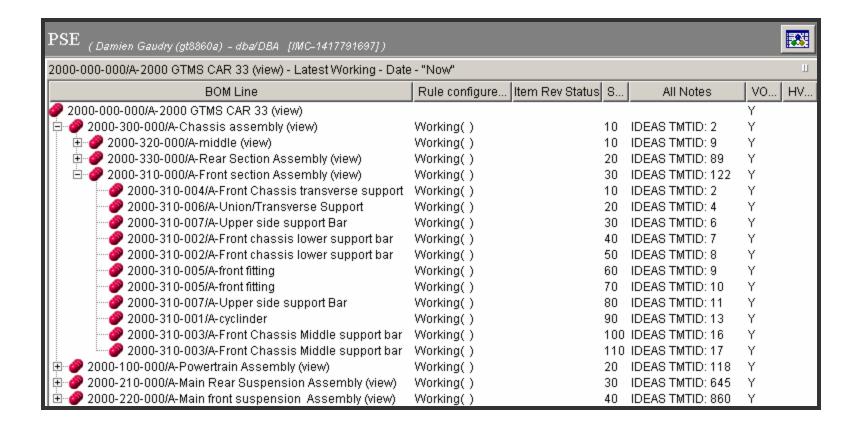


Assembly in TcEngineering

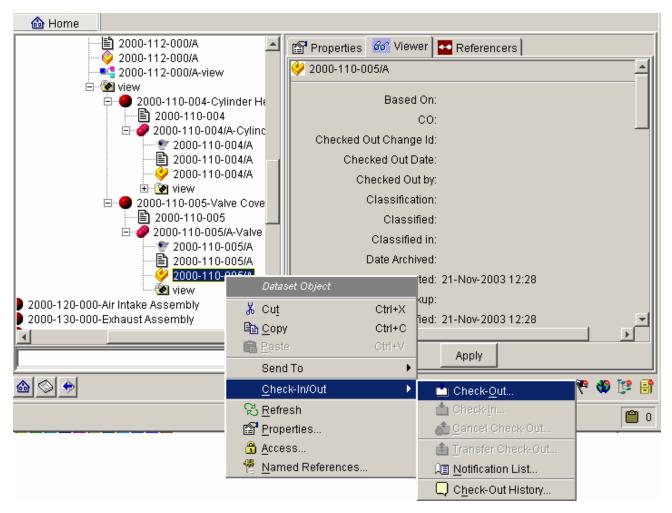


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Assembly in TcEngineering PSE

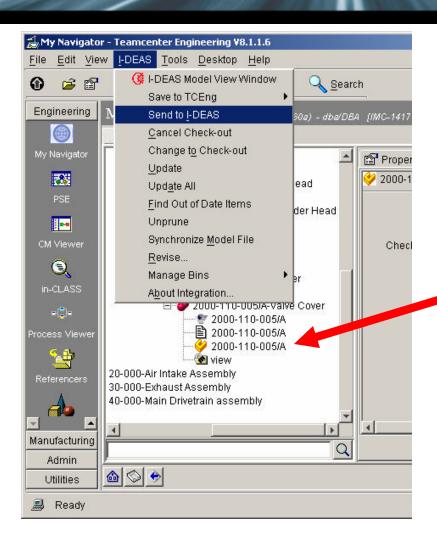


Check-In/Out changes



tdennis@cad.gatech.edu

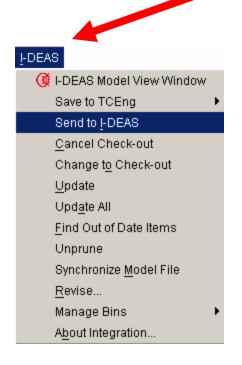
Send to I-DEAS

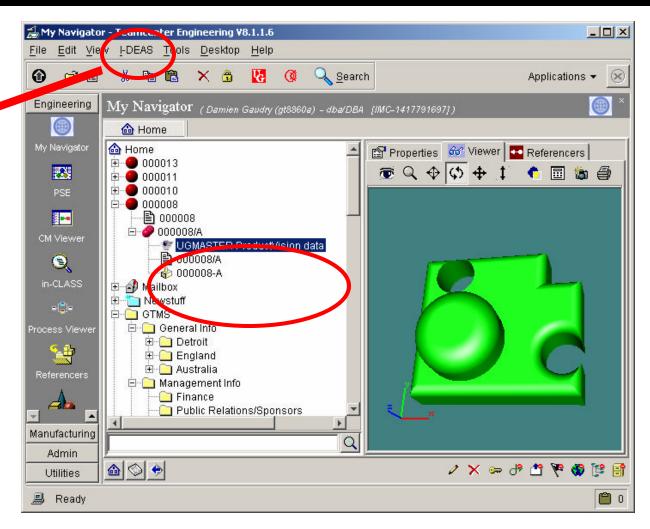


Or double-click 🔧

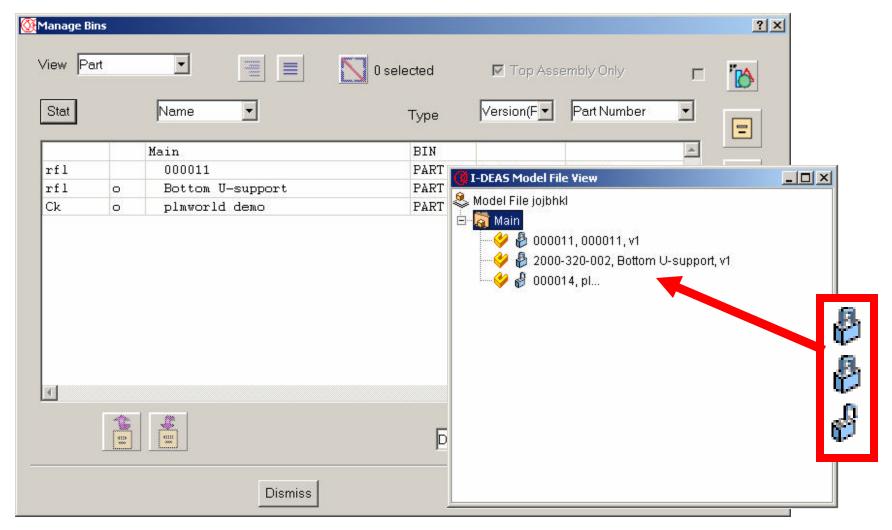


Send to I-DEAS



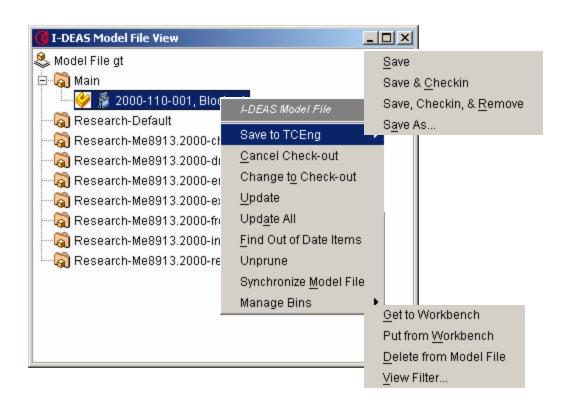


Model File View replaces Manage Bins



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Model File View replaces Manage Bins



Future work

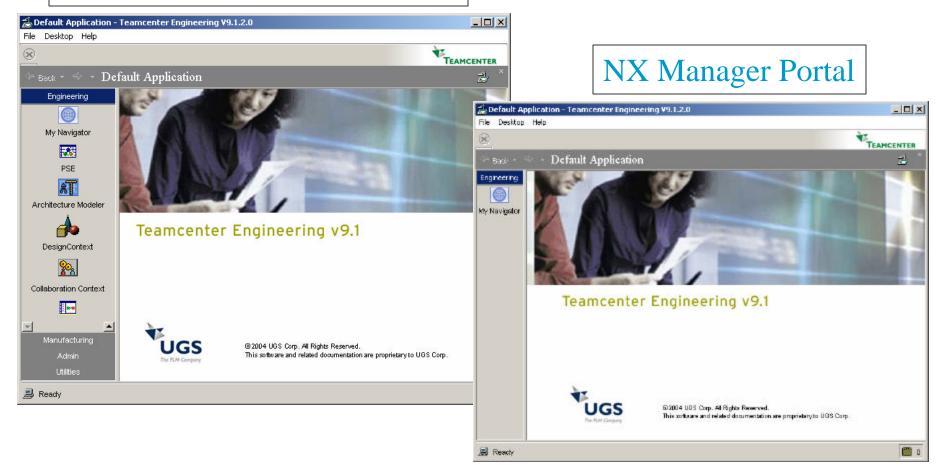
- Teamcenter Engineering 9
 - Security (Firewall) issues
 - Don't fear Oracle
- >NX3
- Solid Edge

Wish List

- > Teamcenter Community
- Non-UGS CAD management

Portal Viewer

Teamcenter Engineering Portal



Getting Help via the Web-board



Questions



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