Tim Fu

Tim Fu, Ph.D.

Biography

Tim Fu leads the Siemens PLM MCAD NX Part Modeling Core software development team, a group of 18 engineers responsible for the core architecture of the NX Part Modeling application. Tim has worked for Siemens PLM developing and leading the development of NX/Unigraphics software for the past 15 years and has worked in CAD for an additional 3 years. He earned a B.S. and an M.S. in Mechanical Engineering from the Huazhong University of Science and Technology (HUST). He earned a Ph.D. in Mechanical Engineering from the New Jersey Institute of Technology (NJIT).

Tim Fu directs the development of architectural and core enhancements to the NX Part Modeling with each NX version release, the latest being NX V9. This involves directing research and experimentation, defining the need for software prototypes, and reviewing designs, algorithms and testing results to ensure state of the art efficient and effective modeling enhancements. Enhancements for NX 9 under Tim Fu's direction and guidance include:

- WAVE - Group Body Selection Intent: Allow the user of the NX Wave Geometry Linker to select multiple bodies (not just single bodies) when collecting geometry.
- Sketch Dimensions: Enhance the creation and editing of NX sketch dimensions while making sketch dimension functionality consistent with NX Drafting and NX PMI dimension functionality.
- Publish: Provide NX a publication concept which provides a level of indirection between the source object and the linked object – a public object.
- Delay and Update: Implement intra-module delay and update controls to reduce update times with part modules.
- 2D Layout Support: This project is to support the 2D layout requirements from the Drafting team.
- Sketch Rigid Set: Add Rigid Set constraint to the NX sketch tool box.
- Featureless Sketch Architecture: This project is to support featureless sketches for NX Drafting workflows.

These projects were successfully completed with high quality, improving both NX functionality and performance for NX CAD users.

Volunteer contribution

1. Founded the Math Club at Landell Elementary School in 2009 and acted as the Advisor and Coach for the math competition program for two years. The program continues today.
2. Founded the Mathcounts Program (part of the STEM program) at Oxford Academy in 2011 and has been acting as the Advisor.
3. Founded the HUST (Huazhong University of Science and Technology) Alumni Association of Southern California in 2002. It has grown up to 371 members as of today. There are engineering related activities.
4. Acted as the President of Hubei Association from 2010 to 2012.