



ADVANCED ENGINEERING SOLUTION INC.

Innovative Steps to Excellence.....



ROBOTIC SIMULATION

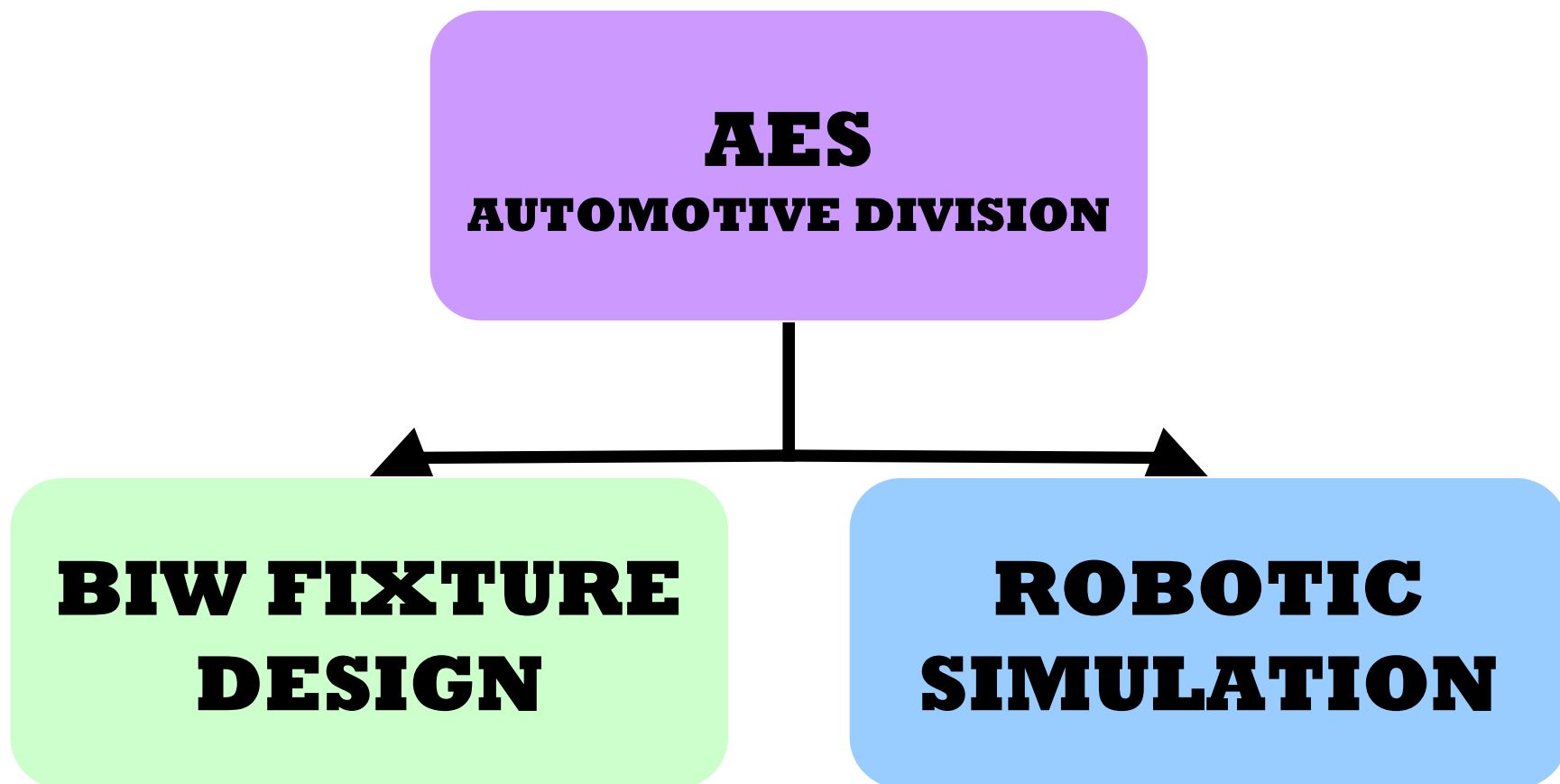


24 * 7 Service

www.aesglobalservices.com



Departments





About Us

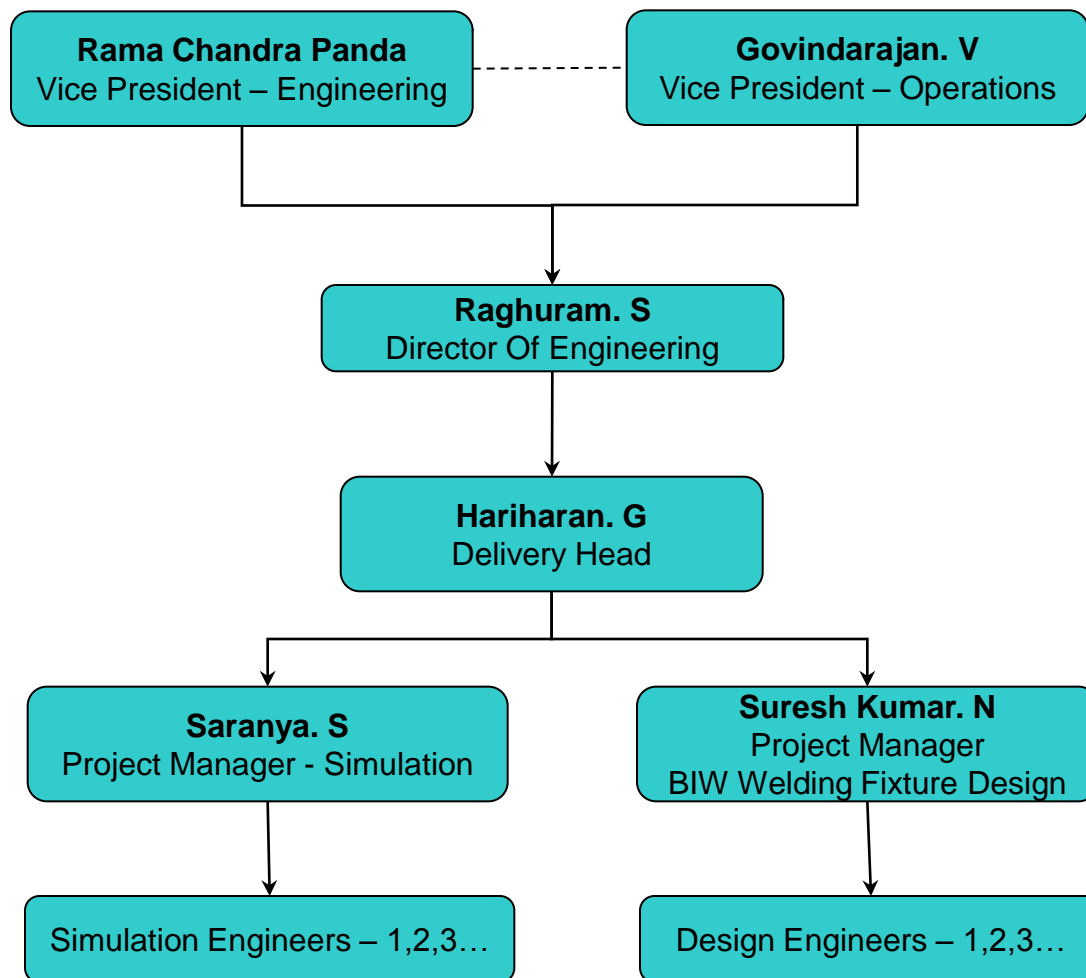
AES Automotive group is well trained with good understanding of Automotive BIW Welding Fixture and Robotic simulation concepts, and can work for different customer standards and requirements.

AES uses its proven methodology of onsite and offshore resources to deliver value to its customers.

AES manages and executes various ongoing design and analysis projects with onsite project coordinators and offshore engineering staff located in India to provide better, faster and more cost-effective solutions to its global customers.



Project Organisation





Services

Providing various application services for Robotic Simulation of Automotive Components.

Operations

- Material Handling
- Spot Welding
- Sealant Application
- Stud Welding
- Pedestal Applications

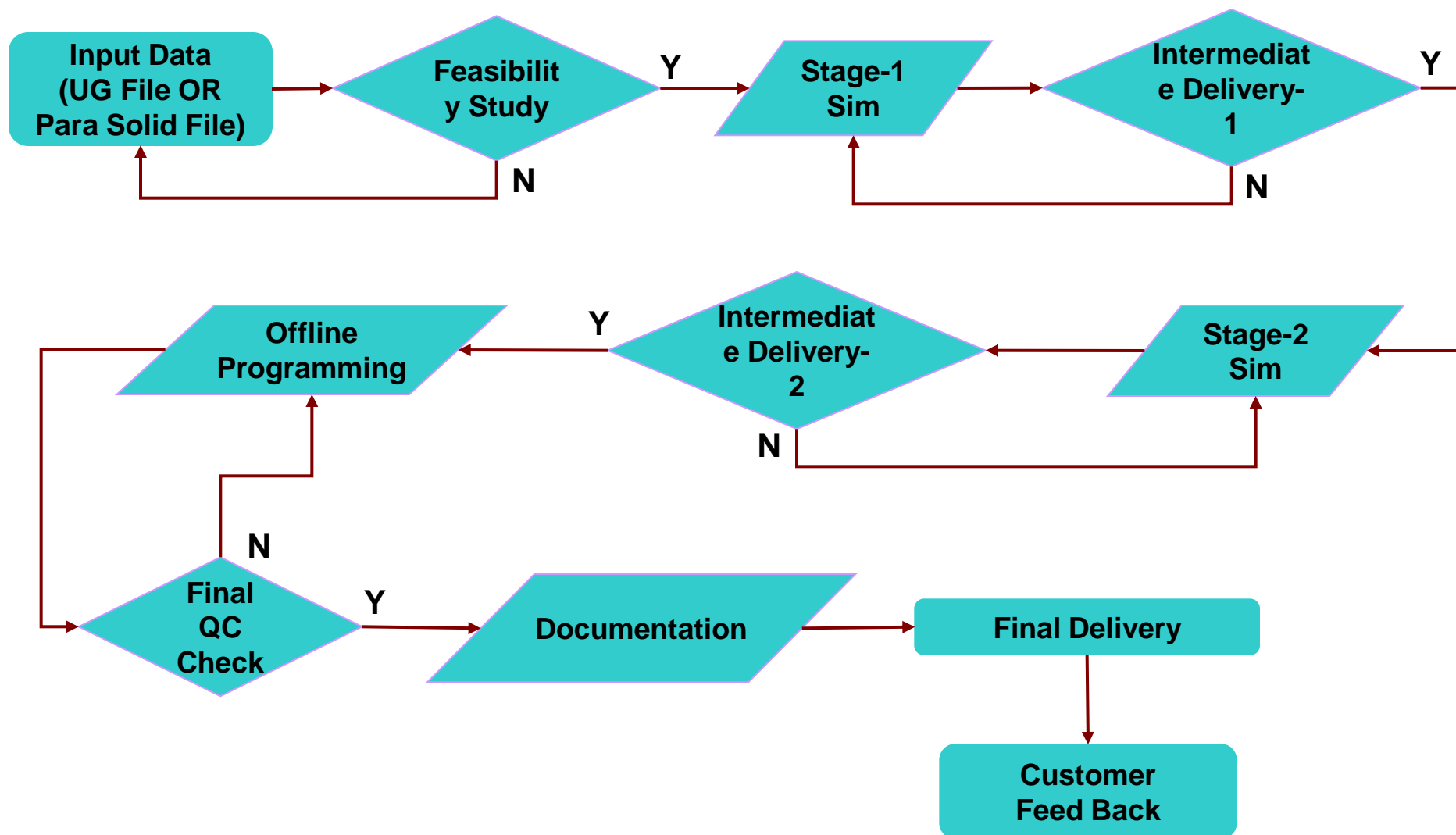


Project Services

- Feasibility Study
- Process Simulation
- Design Simulation
- Design Validation
- Process Optimization
- Work cell Layout Design & Modeling
- Motion Simulation of Robots & Mechanisms
- Sequencing
- Weld Spots Distribution
- Offline Programming



Process Flow





Feasibility Study

- Reacheability study with the input tools
- Placement of the tools and the robots
- Feasibility study of spots



Stage1 Simulation

- Approval of Tooling and Facility Designs
- Initial Path Creation
- Swapping of the Spots if Needed
- Initial Programming
- Process under cycle.



Stage 2 Simulation

- Robot Path Finalization
- Collision free Workcell
- Finalization of Robot and Tooling Placement
- DXF out of the tool placement
- Swept volume Creation
- Payload Entry



Offline Programming

- Final Programming
- Attributes entry according to customer standards
- Fixture Programming
- Sequence Creation
- I/O Connection
- Cycle time under Control



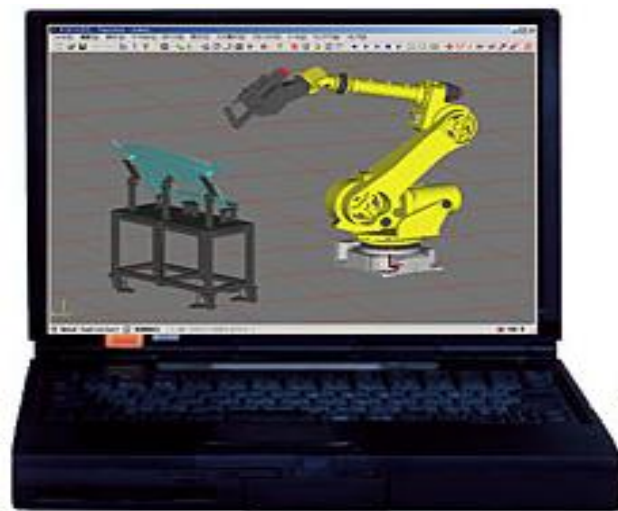
Documentation

- Weld Matrix Creation
- Robot Data Sheet Creation
- SIM Status Report Creation
- Open Issues Report Creation
- Cycle time Report Creation



Simulation Software

- UltraSpot
- Robcad
- Igrip



CAD Software

- Pro E
- Unigraphics
- Catia V5
- Solid Works
- Inventor
- Autocad



OUR OFFICES

Development Centers In India

Registered Office

303, Golden Heights
Sector 12, Pocket 8
Dwaraka, New Delhi - 110 075
Tel: +91 11 4281 5274

Chennai

15, Goutham Towers, 1st Floor
General Patters Road,
Chennai - 600 002
Tel: +91 44 4322 7171 / 72

Bangalore

335/1, Gokul Complex
3rd Floor, Sampige Road,
13th Cross, Malleshwaram
Bangalore - 560 003
Tel: +91 80 4168 9581



Corporate Office

253 Lychee Ct.
San Jose, CA 95111, USA
Mobile : +1 408 386 3278
Tel : +1 408 226 6918

Proposed Offices

Europe : Germany
Asia-Pacific: Japan / South Korea