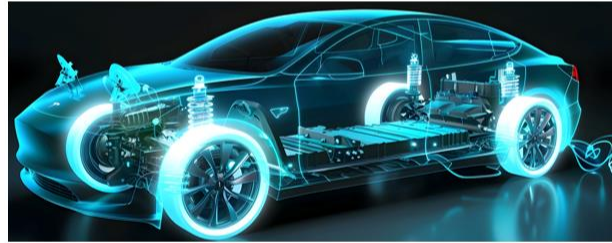




Integrated Simulation Technologies Pvt Ltd



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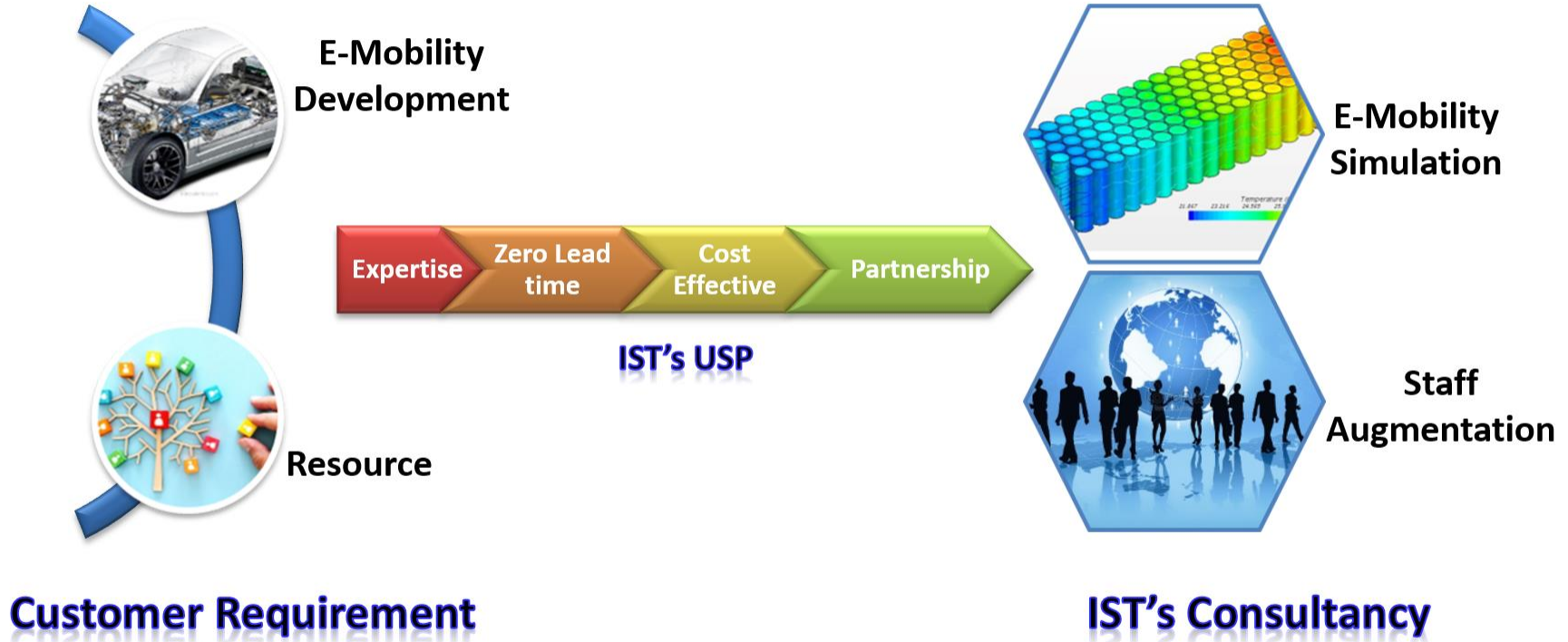


subir.mandal@integratedsimtech.com

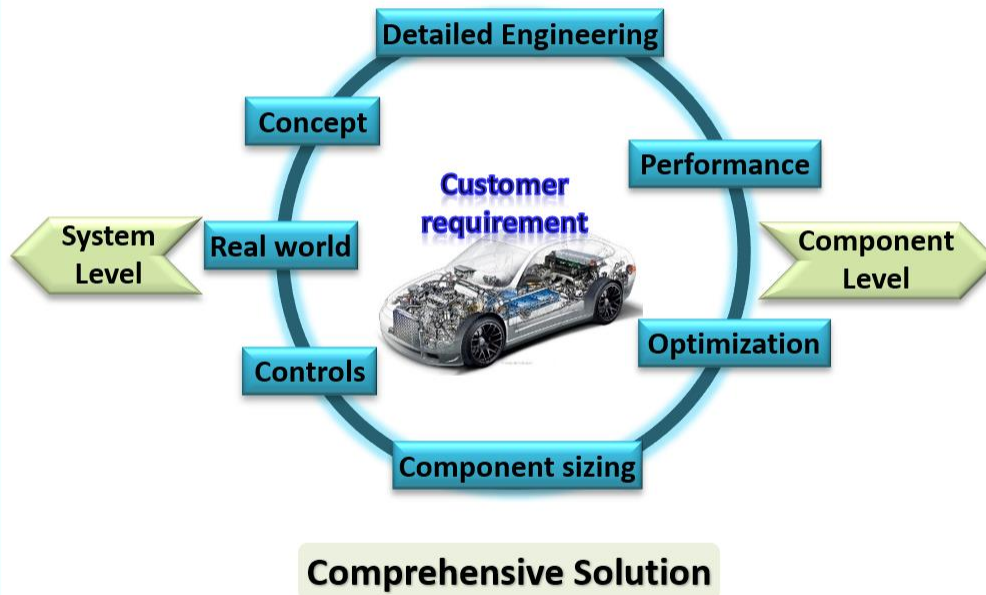


www.integratedsimtech.com

- ☐ **About IST**
- ☐ **Detailed capability**
 - ✓ 1D system level simulation
 - ✓ 3D CFD simulation
 - ✓ Co-simulation
 - ✓ Design
 - ✓ FEA
- ☐ **Advantage IST**

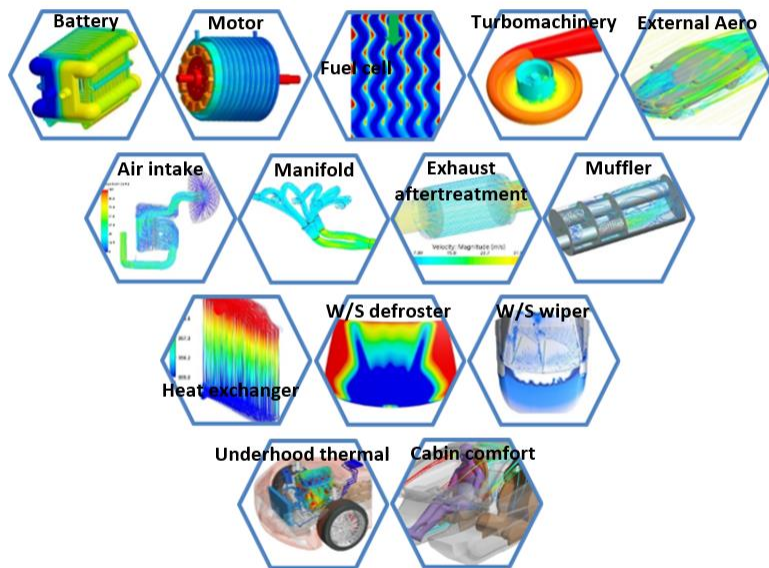


eMobility Simulation: 1D System Level Simulation



Expertise ■ Ownership ■ Cost Competent ■ GT-SUITE ■ Matlab/Simulink

Domain

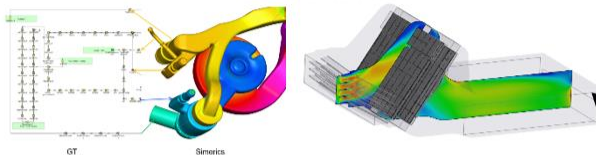


Physical phenomenon

- Steady state/ transient
- Compressible/ incompressible
- Multi-phase/ Volume of fluid (VOF)
- Conjugate heat transfer (CHT)
- Moving reference frame (MRF)
- Moving mesh
- Electromagnetic

Expertise ■ Ownership ■ Cost Competent ■ Star-CCM+ ■ Ansys Fluent

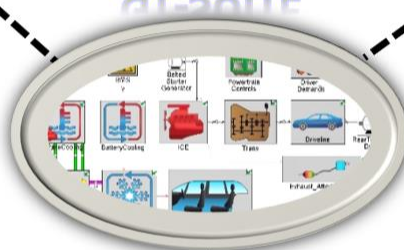
3D CFD



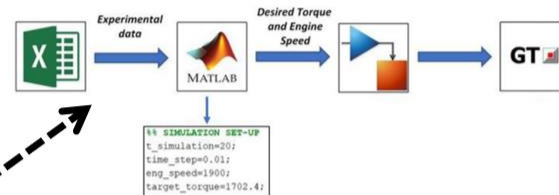
- StarCCM+
- Fluent
- GT-Auto 3DFlow
- Converge

- Manifold
- Aftertreatment
- Cylinder water jacket
- EGR mixture
- Underhood cooling system

GT-SUITE



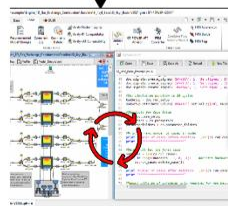
Matlab, Simulink



- Matlab scripting
- Simulink harness
- FMU (Functional Mock-up Unit)
- FMI (Functional Mock-up Interface)

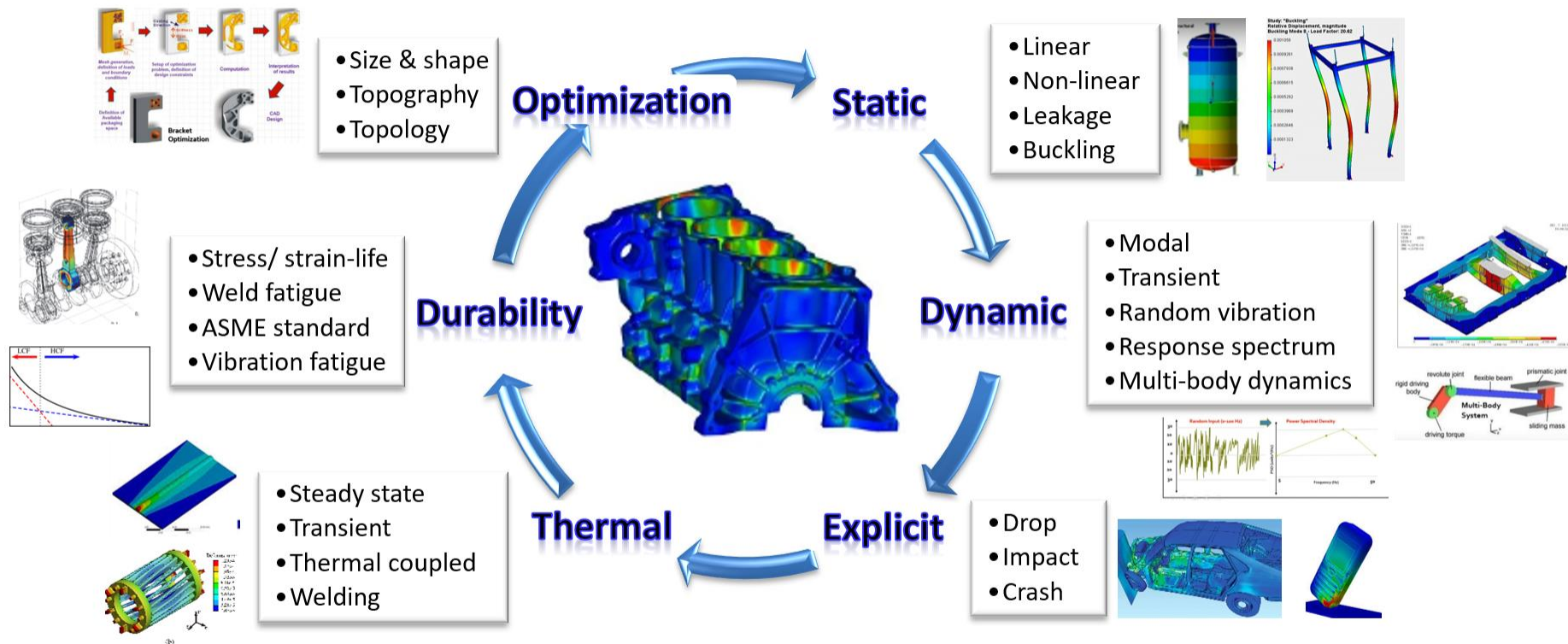
Python

- Python scripting

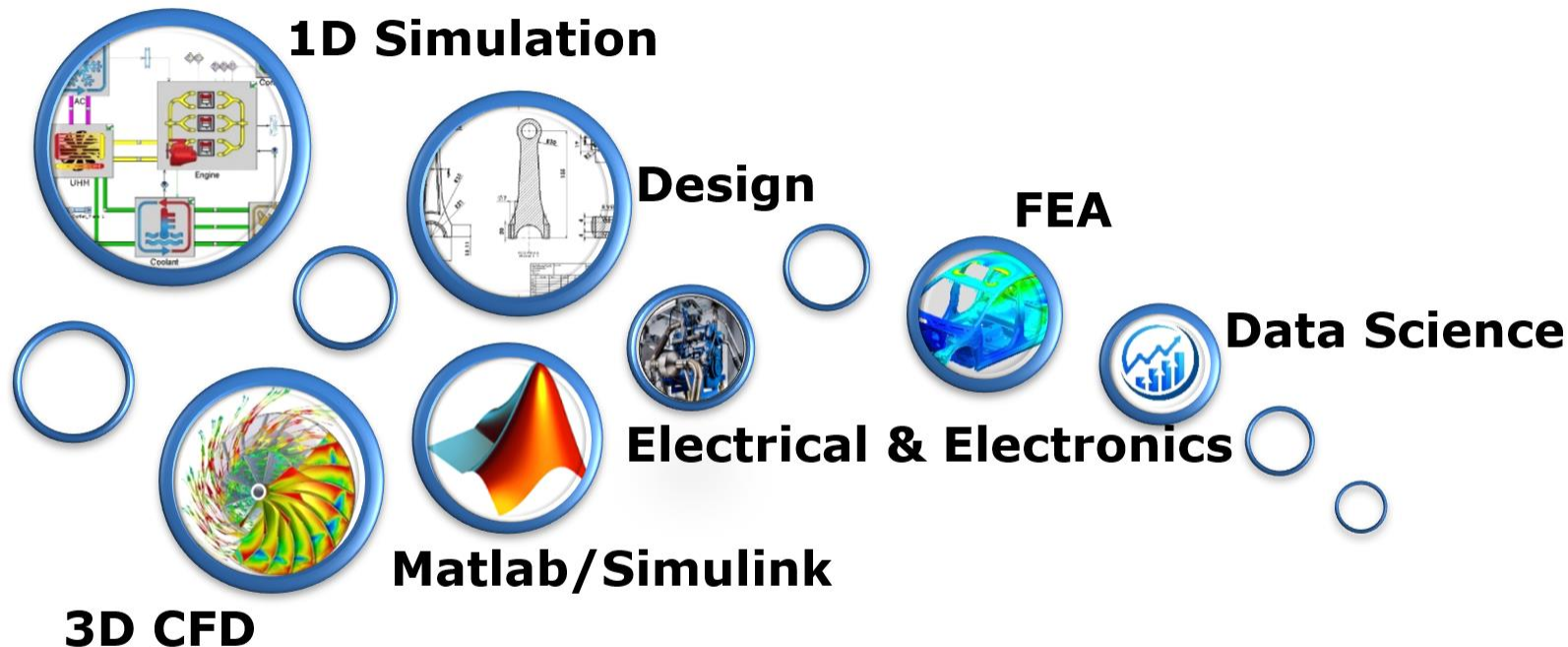




7



Expertise ■ Ownership ■ Cost Competent ■ Multiple Software



Cost Effective ■ Zero Lead Time ■ High Quality Engineers ■ Prompt Response

Staff Augmentation: In-house Resource Creation

6. Strong feedback mechanism:

Corrective measures or impart additional skill & knowledge



5. Robust mitigation plan:

Buffer resources to deal with attrition



4. Fast ramp-up:

Desired competency & skill by in-house technical experts



3. Product knowledge:

Engineers are with excellent product knowledge



High quality & Zero lead time



1. Expert driven:

>23 years of experience in 1D & 3D CFD

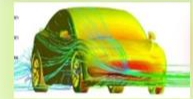


2. In-house resources:

1D, 3D CFD and Matlab/Simulink engineers



1D GT-SUITE

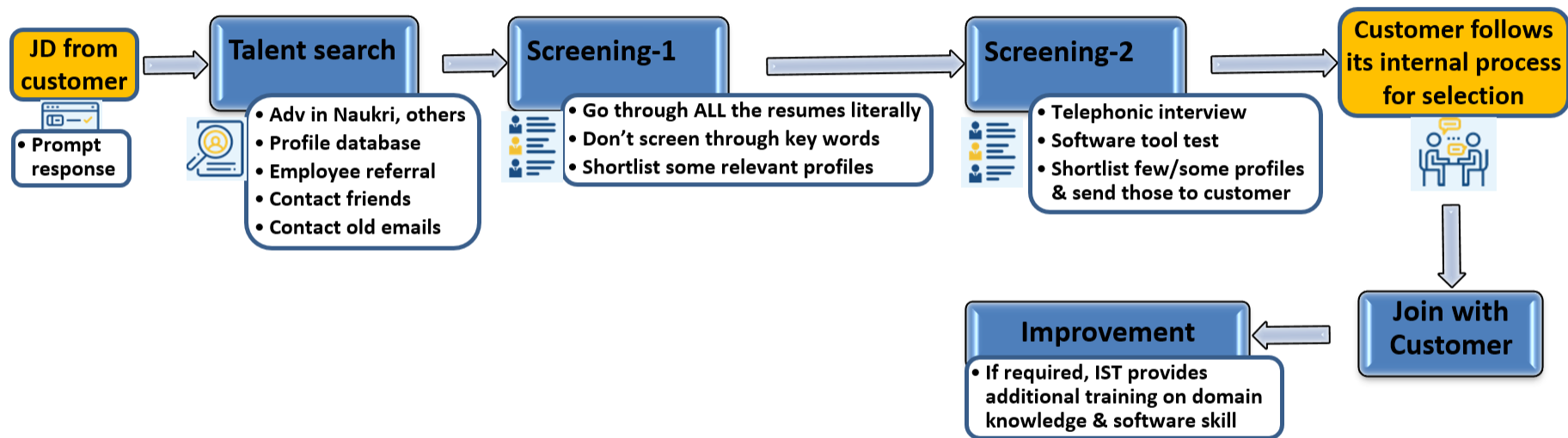


3D CFD



Matlab/
Simulink

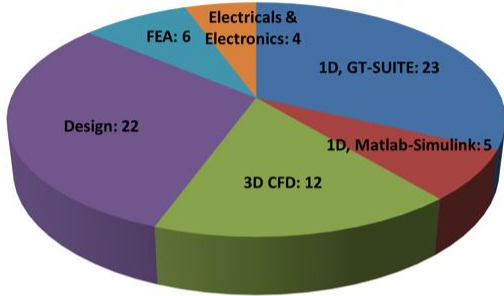
Staff Augmentation: Resource from Open Market



Our customers really appreciate about this SPECIAL process...!

Staff Augmentation: Resource Strength

Engineers in Different Domains (72)



Subir Mandal

- **Founder & Director, Head of Engineering (IST)**
- M.Tech. in Thermal Engg., IIT Kharagpur
- 23+ years experience in E-mobility, ICE, Aircraft engine
- 1D & 3D CFD simulation
- GT-SUITE, Ansys Fluent, Star-CCM+
- Rolls-Royce Power System (MTU), ESI Pacific Mindware, Cummins, GE Aircraft Engine



Ankit Verma

- **Manager – CAE (IST)**
- 3D CFD, Design, FEA
- M.Tech. in Thermal Engg., NIT Agartala
- 5+ years experience in E-Mobility, ICE
- Star-CCM+, Ansys Fluent, ANSA



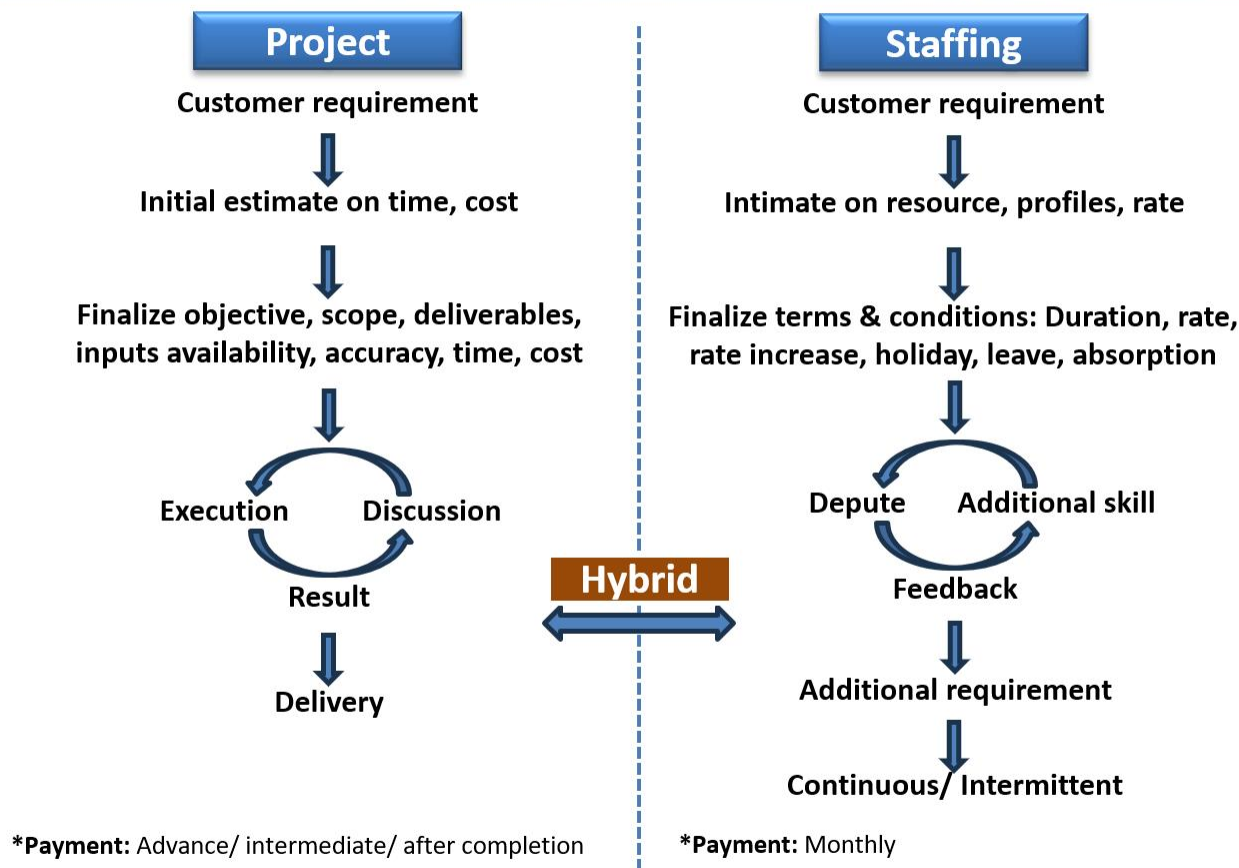
Pankaj Devade

- **Manager – System Level (IST)**
- 1D simulation
- M.Tech. in Heat Power, GCoE Karad
- 5+ years experience in E-Mobility, ICE
- GT-SUITE, Matlab, Simulink, Simscape


Staff Augmentation: Techno Matrix

Customer's Expectation	IST's Approach	Self Evaluation	Success
1. Cost effective	Competitive price Value for the cost	9	<p>1. Started in 2017 with 1D Simulation as the core domain, we have over 72 engineers working in multiple domains.</p> <p>2. Customers in staffing – 9 customers</p>
2. Lead time	Prompt response In-house resource SPECIAL process from open market Data base for resumes	9	
3. Quality	Huge technical database Trainer with rich industrial knowledge & software skill Rigorous filtration from open market Knowledge & skill enrichment	9	
4. Knowledge & skill enrichment	Feedback Weakness/ New domain Session Partners	9	
5. Retention	~3 years Good salary Proactive knowledge & skill enrichment Commitment	7	
6. Replacement	15-20% bench strength 2-3 months notice period	8	
7. Absorption	As per the agreement	9	
8. In-house setup	Excellent in 1D, Matlab/Simulink & 3D CFD Good in Design & FEA	8	

Working Model with Customer








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Gamma Technologies frequently receives requests from companies who wish to outsource GT-SUITE simulation projects. While we are pleased to receive such requests, GT's primary focus has always been on providing the best and most advanced simulation software, rather than on consulting services. For this reason, GT refers such requests to professional consulting firms. It is in this spirit that we have established the "Consulting & Services Providers List" program, listing high quality consulting firms experienced in the use of GT-SUITE, which have built long term relationships with Gamma Technologies.

- [Powertech Engineering](#)
- [Czero](#)
- [Mahle Powertrain](#)
- [Powertrain Technology](#)
- [EngSim](#)
- [InDesA](#)
- [M Plan](#)
- [FEV](#)
- [IAV](#)
- [Integrated Simulation Technologies Pvt. \(IST\)](#)
- [AVL-LMM](#)
- [Thermotec](#)
- [Porsche Engineering](#)
- [Danielson Engineering](#)
- [TheSys](#)
- [Roush](#)
- [Design Department](#)

IST as service provider

<https://www.gtisoft.com/simulation-service-providers/#ist>

Participation in GT Conference

Exhibition & Presentation



2018

Exhibition



2020

Exhibition



2023

Exhibition



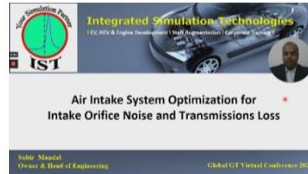
2025

2019



Exhibition

2021



Presentation

2024



Exhibition & Presentation

Our Office



Advantage IST



Thank You

Contact Us

We appreciate you for visiting our website. Please drop us a line for any inquiry on project, staffing, training or case study.

Integrated Simulation Technologies Pvt. Ltd.

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Drop us a line!

