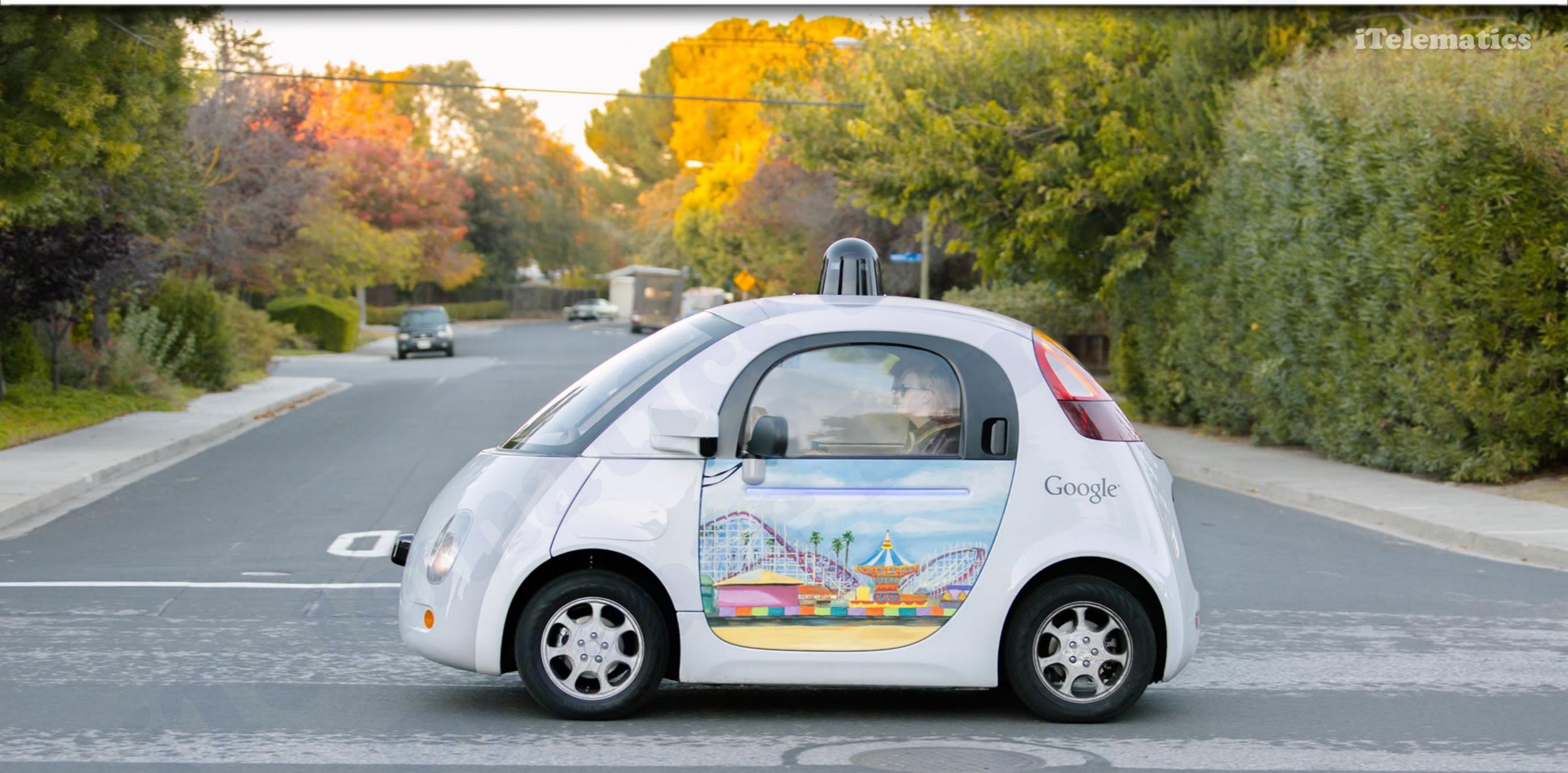


iTelematics®

iTelematics



iTelematics Software Private Limited

Courtesy: <https://www.google.com/selfdrivingcar/paint/>

Agenda

- About us
- Technology Research
- Telematics Certification Program
- Syllabus - Level T1, T2, T3, T4, T5
- Internship Project Details
- Research Deliverables & Evaluation Criteria
- Pricing | Cost structure
- Contact us

About us

iTelematics Software Private Limited is a Bengaluru based company, currently carrying out Research and Development in Automotive Software -

- In-Vehicle communication
- Vehicle to Vehicle Communication

Partnership with Universities

- Academic / Start-up projects.
- Helping Researchers with their Patents and doctoral thesis.

Technology Research

Telematics Engineering

Autonomous Vehicles | Security

Software Engineering | Internet of Things

Telematics Certification Program

Entry level programs (2 to 12 months Internship)

- T1: Freshers | Trainee | Intern
- T2: Software Engineer | Developers

Research programs

- T3: Telematics Engineer | Autonomous Car

Corporate level programs

- T4: Security Architect | Technical Lead
- T5: Product Manager

Syllabus : Telematics Engineering

T1: Automotive Telematics Software

- Y1-Q1: Telematics Technologies & Platform
- Y1-Q2: Telematics Software Engineering
- Y1-Q3: Ethical CAR Hacking
- Y1-Q4: Automotive Security and Privacy
- Y1-E1: CAN Bus - Secure Programming

T2: Connected Vehicle Software

- Y2-Q1: Telematics Communication Technologies
- Y2-Q2: In-Vehicle & Vehicle to Vehicle Communication
- Y2-Q3: Vehicular ad hoc networks
- Y2-Q4: Connected Vehicle Security
- Y2-E1: Telematics Communication Protocols

T3: Autonomous Vehicles (AV)

- Y3-Q1: Driverless CAR Technologies
- Y3-Q2: Intelligent Transportation Systems
- Y3-Q3: Real time operating systems for AV.
- Y3-Q4: Autonomous Vehicle Security
- Y3-E1: Machine Learning & Artificial Intelligence

T4: Automotive Software Security

- Y4-Q1: Telematics Software Security
- Y4-Q2: Automotive Security and Privacy
- Y4-Q3: Connected Vehicle Security
- Y4-Q4: Automotive Cyber Security
- Y4-E1: Autonomous Vehicle Security

Syllabus : Level - T5 (Product Management)

Wireless Vehicle Security

Domain :

- Automotive Software | Autonomous Vehicles | Security

Technologies :

- Google's Android Auto | Waymo
- Intel's Automated Driving Solutions
- Apple's CarPlay | iOS app development

Tech - Entrepreneurship :

- Business Plan | Business Model Canvas | Agile | Lean Startup
- Trends & Predictions | Market Research
- Product Management | Monetisation models

Telematics Software Engineering

PROBLEM DEFINITION

INFORMATION GATHERING

BUSINESS / SYSTEM ANALYSIS

SOLUTION DESIGN

IMPLEMENTATION

TESTING

Problem Identification

Solution Area

Internship Project Details

Course Name : Telematics Engineering Copyright © iTelematics 2017

Specialisation : Automotive Software Security

Course Provider : iTelematics.org

Product : Wireless Vehicle Security

Problem to solve : [Contact info@iTelematics.com for more details]

Programming Language : [Java] or [Swift] (Prerequisites)

Platform : [Android] or [iOS]

Client and Server Technology : [Google] or [Intel] or [Apple]

Software Engineering Method : Object Oriented Software Engineering

Product Design : Unified Modeling Language

Development framework : Agile Scrum / Google's Design Sprint

Realtime IoT Devices : Wearables, smart phones (Emulators for development)

To be Delivered : Project Report, Presentation, working source code

Training and Evaluation Method : Online support using Skype call (Online Training) / Email Support

Project Guide/Mentors : One Professor from your college & One Telematics Expert / Architect

Internship duration (Basics) : 2 Months (40 days * 7.5 hours = 300 hours) per student at College

Internship duration (Advanced) : 6 Months * 4 semester = 2 Years = 1200 hours (2 Hours/Day) at College

Stipend : No stipend

Course Fees : Contact info@iTelematics.com for more details

Certification / Experience Letter : Provided on successful completion of the project

Internship - Topics Covered

S.No	Topics covered	Descriptions	Copyright © iTelematics 2017
1	Introduction	Product Introduction and Software Engineering Concepts	
2	Android/iOS Development (Client)	How to develop Mobile Telematics application for Internet of Things	
3	Google Technology (Server)	Server development, Google Developer Portal and Playground	
4	Research Domain	Internet of Things - Telematics Engineering	
5	Development Framework	Agile Scrum / Google's Design Sprint	
6	Project Definition	Problem statements, goals, boundaries, timelines etc	
7	Information Gathering	Requirement Analysis, Interviews ... etc	
8	Unified Modeling Language	Usecases, Class, Object, Sequence, Activity diagrams ... etc	
9	Object Oriented Analysis	Learn and Apply Object Oriented Analysis concepts	
10	Object Oriented Design	Learn and Apply Object Oriented Design concepts	
11	Database Design	Designing database - SQLite, Big Data, Cloud storage etc	
12	Design Patterns	Learn algorithm, data structure, design patterns	
13	Wireframe / UI Design	User experience design, wireframes, CXD, Personas	
14	Prototype Evaluation	Proof of concept - Design & Implementation of prototype	
15	Server side development	Server side development	
16	Client side development	Client side development	
17	Code Review and Dev Testing	Unit testing, Static analysis, Automation tools, Memory leaks	
18	Quality Assurance	Integration Testing, Product testing, Performance testing	
19	Application Release	How to submit the app to Google Play / Apple's AppStore	
20	Project submission	Submit the open source code, presentation and project report	

Telematics Research | Business Model

Key Partners :
Automotive
Software Development
Companies

- Job Requirements
- Software Development Kits
- Research / PoC Requirements
- Government project requirements

Key Deliverables:
• POC / Prototypes
• Research reports

- Developers
- Architects
- Product Owners

Key Customers :
Students & Professors
Start-ups

Key Resources:
• Subject Matter Experts

Key Activities:
• Research / Internship
• Analysis & Design | PoC (SME)

Key Partners :
Universities
Educational Institutes

- Patents
- Intellectual Properties
- Research Papers

Evaluation Criteria (Option - Traditional)

- Hackathon
- Mini Projects
- Group discussion
- Tech Talk | Paper Presentation
- Technical Quiz | Interview Questions

Evaluation Criteria - Part 1

- Team work & Collaboration
- Unlearn & Learn
- Quality of the work done
- Self Discipline & Self Motivation
- Specialisation in one area

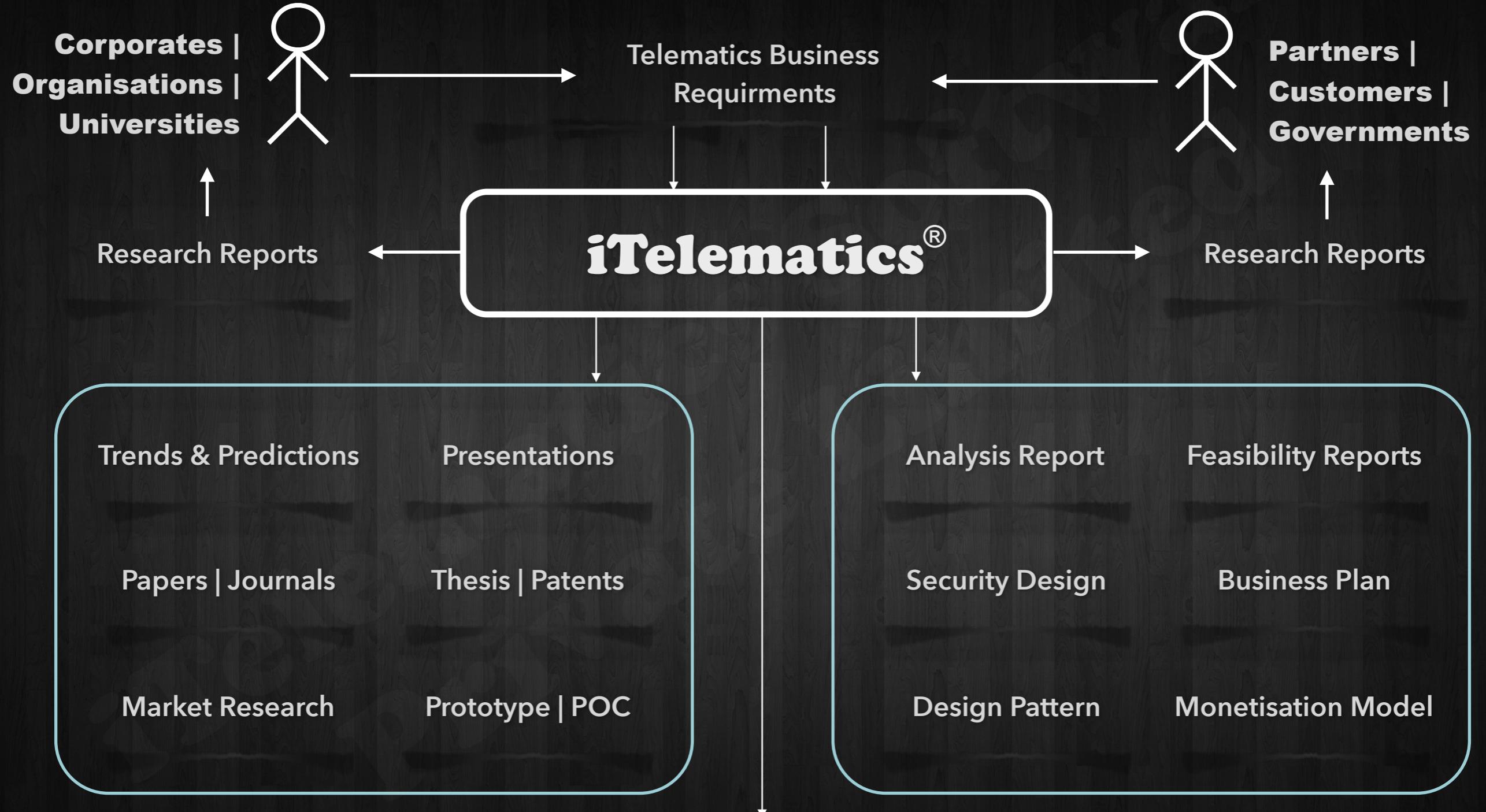
Evaluation Criteria - Part 2

- Time Management
- The ability to Identify the problem
- The ability to solve the problem
- The ability to deal with failures
- Leadership & Start-up skills

Course Completion Certificate

- Awarded after successful completion of each course.
 - Course Completion Certificate
 - Grade | Score card : After evaluation
 - ✓ A : 81% - 100%
 - ✓ B : 71% - 80%
 - ✓ C : 60% - 70%

Research Deliverables



Contact us for more details : info@iTelematics.com

Pricing | Mentoring Fees

	Total Units	Plan / User
Level - T1	5	\$99/Unit
Level - T2	5	\$199/Unit
Level - T3	5	\$299/Unit
Level - T4	5	\$399/Unit
Level - T5 Start-ups	Contact us	Contact us

T1 + Internship
2 to 24 months at college campus

Start-up @ College

\$99/Month

Research Papers | Patents | PoCs

Contact us

info@iTelematics.com

Contact us

ASHWINI SUDARSHANA

- Co-founder, iTelematics Software Private Limited
- Research - Intelligent Transportation Systems
- iOS and Android app development for Internet of Things
- Working in planning and designing smart cities, smart transportation and vehicle telematics solutions
- Profile: <https://www.linkedin.com/in/ashwinisudarshana>

info@iTelmatics.com

“Thank You”

“Dreams are not what you see in sleep.
Dreams are which does not let you sleep.”

- A.P.J. Abdul Kalam