Roney Thomas | [Resume](#)

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Professional Experience (7.5 years)

Tech Lead — Applied Materials Bangalore   [2020 — now]
AMAT is a Semi-conductor-based Product company.

Senior Systems Engineer — Siemens Healthcare Bangalore   [2016 — 2020]
Siemens Technology is a Product company.

Tismo Technology — A startup MNC – Campus placement   [2014 — 2016]
Tismo Technology is a startup MNC at Bangalore.

Education

[M-Tech in Computer Science (8.51 cgpa)] — College of Engineering Trivandrum, Kerala   [2012 — 2014]
M- Tech specialization – Information Security. About the College – One of the Top 25 Engineering
Colleges in India. Indian President Inaugurated College's Platinum Jubilee Fete.

[B-Tech in Information Technology (70%)] — Govt Eng College Palakkad, Kerala   [2008 — 2012]
About the College – One of the Top Engineering Colleges in Kerala.

Publications

[ICCSC – International Conference on Computational Systems and Communications]   [17th Dec 2014]
Paper Name – A Novel Decentralized Group Key Management using Attribute-Based Encryption
Paper Link - http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7032678

Awards

[AMAT MPA Award], For bringing in a framework for Webinar.   [Jan 2022]
[AMAT MPA Award], For the implementation and ownership of FI system.   [Dec 2021]
[AMAT CSS Hackathon], Winner - Award.   [Sep 2021]
[Siemens Excellence Award for the Project], For Best Quality - Team Award.   [22nd Feb 18]
[Siemens Spot Award], HACKATHON event(Machine Learning using Python).   [Sep 2018]
[Siemens Spot Award], For proactively helping new joiners.   [31th Feb 2017]
[Siemens Excellence Award for the Project], For Best Quality - Team Award.   [17th Feb 2017]
[Best Final Year B-Tech Project Award], Govt Engineering College Palakkad.   [2011 - 2012]

Roles and Responsibilities

- Module ownership, gathering requirements from stake holders, driving implementation from HLD to LLD, automate test scenarios to ensure quality with new features.
- Design and implementation of applications in C# with unit tests.
- Execute the project backlogs with ownership and agreed requirements (schedule, quality, functionality and customer satisfaction).
- Mentoring new joiners in the team and supporting them.
- Participate in requirement discussions, analyses the end user requirement and come up with Technical solution.

Project Experiences

[Amat Module Lead] — Epson Robot module Research, design and implementation   [3 Months]

- End to end implementation of Epson 6 axis robot functionalities.

- Platform   : Visual Studio 2019

- Programming Language   : C#.

- Role   : Research, Design and Development.

- Technologies   : Task sequencer. Task parallel executer, dynamic scheduling.

[Amat Module Lead] — Jedec Feeder module Research, design and implementation   [3 Months]

- End to end implementation of Epson 6 axis robot functionalities.

- Platform   : Visual Studio 2019

- Programming Language   : C#.

- Role   : Research, Design and Development.

- Technologies   : Task sequencer. Task parallel executer, dynamic scheduling.

[Amat Module Lead] — Pick conveyor module implementation [3 Months]

- End to end implementation of Pick conveyor modules with a complicated scheduling requirement

- Platform : Visual Studio 2019

- Programming Language : C#.

- Role : Research, Design and Development.

- Technologies : Task sequencer. Task parallel executer, dynamic scheduling.

[Amat Module Lead] — OCR Image reader [3 Months]

- OCR Image reader application backend interface to Cognex wafer id reader using TCP/IP. Along with a TCP/IP generic communication library using Tasks

- Platform : Visual Studio 2019

- Programming Language : C#.

- Role : Research, Design and Development.

- Technologies : TCP/IP, Task Completion source, Func, Task sequencer.

[Amat Module Lead] — Task sequencer and Task parallel executer framework [1 Months]

- Implemented a step by step configurable framework for task, for easy configuration of timeout and other related challenges.

- Platform : Visual Studio 2019

- Programming Language : C#.

- Role : Research, Design and Development.

- Technologies : Task Completion source, Func, Builder design pattern.

[Amat Module Lead] — FI interface design and Scheduling [8 Months]

- Factory Interface module design implementation and scheduling of FI Robot.

- Platform : Visual Studio 2019

- Programming Language : C#.

- Role : Research, Design and Development.

- Technologies : Design patterns, Unit Test, Scheduling, Multithreading, TCP/IP, State design pattern, Façade design pattern, Adapter design pattern, Singleton, MSTest.

[C# Developer] — InRoom CT integration in to MTS   [12 Months]

- MTS is the ion therapy delivery system used in Siemens Particle Therapy System.

- Platform   : Visual Studio 2015

- Programming Language   : C#.

- Role   : Research, Design and Development.

- Technologies   : WCF, WPF, MVVM, DICOM, Tasks, Design patterns, Unit
Test, Multithreading, Agile methodology, CT, Dose calculation, syngo, 3D-3D registration, CT data
communication.

[C# Developer] — TPS Siemens Healthcare   [12 Months]

- TPS is the treatment planning system used in Siemens Particle Therapy System.

- Platform   : Visual Studio 2015

- Programming Language   : C#.

- Role   : Research, Design and Development.

- Technologies   : WCF, WPF, MVVM, DICOM, Tasks, Design patterns, Unit
Test, Multithreading, Agile methodology, CT, Dose calculation, syngo.

[C# Developer] — MPA Siemens Healthcare   [8 Months]

- MPA is a quality assurance application made for MTS.

- Platform   : Visual Studio 2015

- Programming Language   : C#.

- Role   : Research, Design and Development.

- Technologies   : WCF, WPF, MVVM, DICOM, Tasks, Design patterns, Unit
Test, Multithreading, Agile methodology, CT, Dose calculation, syngo.

[C# Developer] — MTS Siemens Healthcare   [17 Months]

- MTS is the ion therapy delivery system used in Siemens Particle Therapy System.

- Platform   : Visual Studio 2015

- Programming Language   : C#.

- Role   : Research, Design and Development.

- Technologies   : WCF, WPF, MVVM, DICOM, Tasks, Design patterns, Unit
Test, Multithreading, Agile methodology, CT, Dose calculation, syngo.

[C# Developer] — PT Event Viewer Tool   [3 Month]

- PT Event Viewer is the used for visualizing treatment application events.

- Platform   : Visual Studio 2015

- Programming Language   : C#.

- Role   : Software Development

- Technologies   : WPF, MVVM, Data analytics.

[C# Developer] — Matech Robot Scheduler   [6 Months]

- Matech wants to upgrade their wafer processing machine with two robots and want to create a robot scheduler class which schedules the functionalities of two robots. It used the factory method design pattern to handle both single robot and dual robot functionalities.

- Platform   : Visual Studio 2012

- Programming Language   : C#.

- Role   : Requirement analysis, Design, Software Development.

- Technologies   : Factory method, Façade design pattern, Tasks, Singleton.

[C# Developer] — Fifthplay Gateway Automation Framework, Germany   [6 Months]

- Fifthplay wants to implement an automated test framework for their gateway.
- Platform   : Visual Studio 2012
- Programming Language   : C#.
- Role   : Requirement analysis, Design, Application Development.
- Technologies   : Web Api, httpserver, Rest api.