# About Me

## Work experience

Rong Fan

# Recently

## My family

**Sia, Xiao and me**

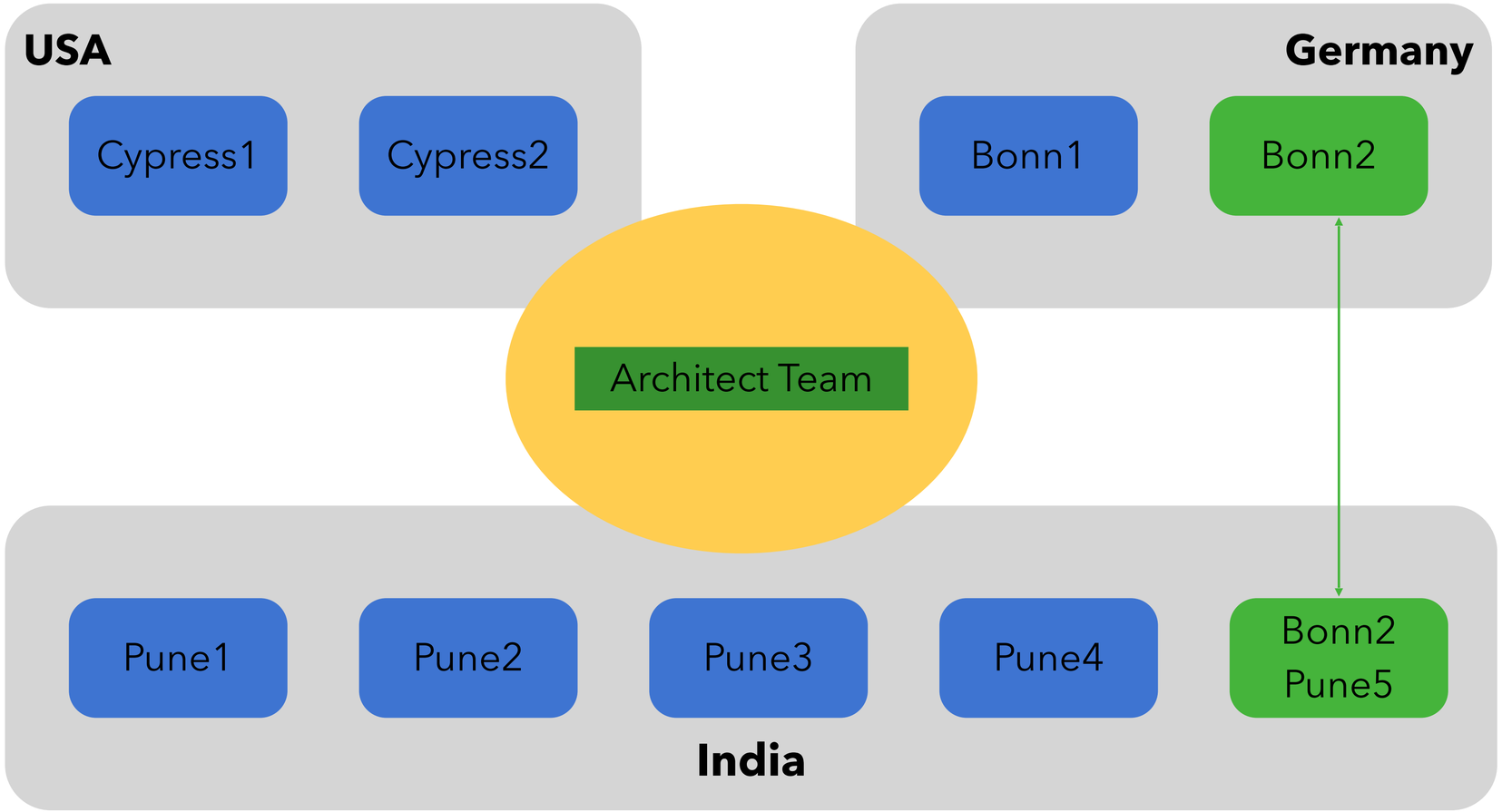
# Overview

- Shanghai 1978-1998
- **TU-Darmstadt** 1998-2005
- Other companies 2005-2009
- **Siemens AG** 2009-now

# In Siemens

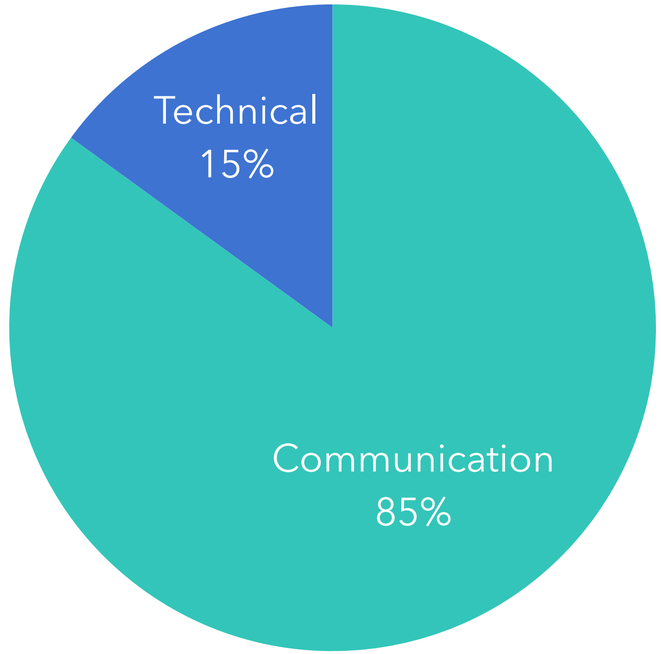
- **Software Engineer** 2009-2012
- **Software Engineer** delegate half year in Cypress, L.A. 2012
- **Software Architect** 2012-2020
- **Senior Software Engineer** 2020-now

# Project Setup



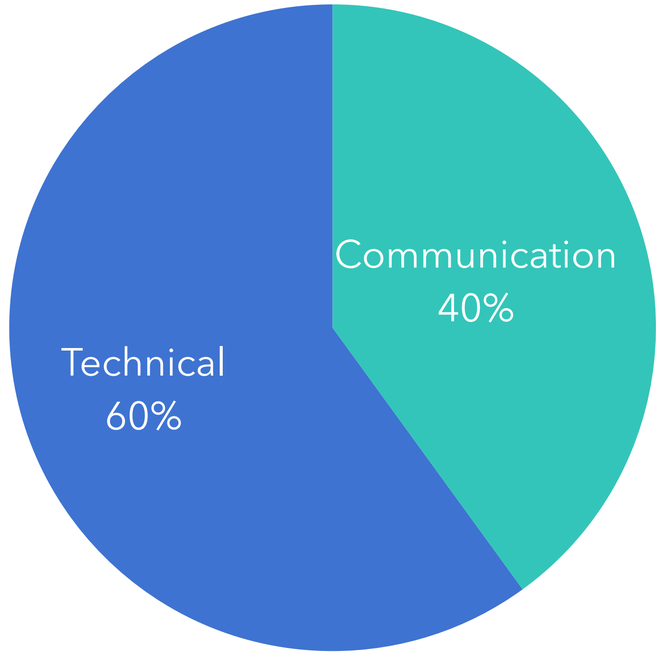
# Architect Team Tasks

- **Communication**
    - Concept Sharing
    - Concept Review
    - Conflict Solving
    - Arch JF moderating
    - Workshop moderating
- **Technical**
    - Improve Unit test Framework (3i highly-evaluated)

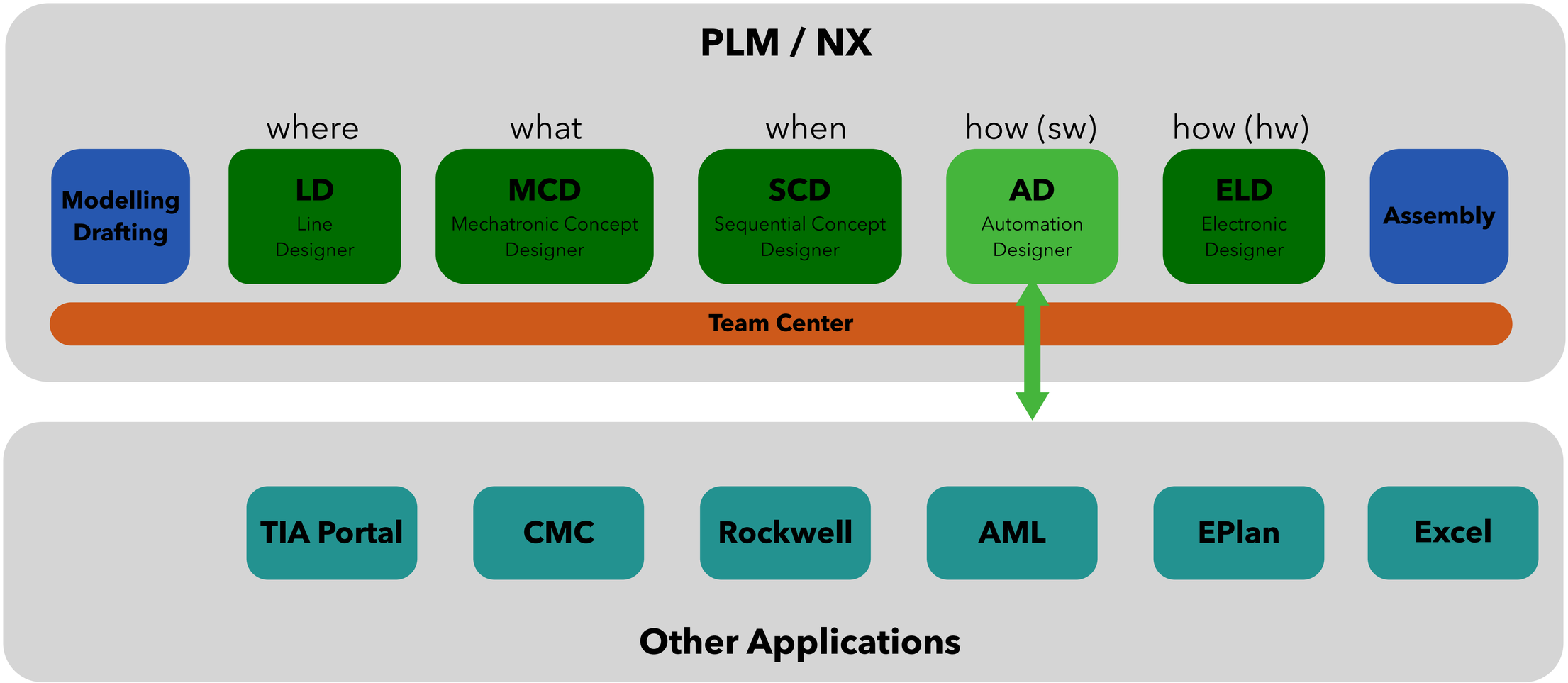


# Architect Tasks

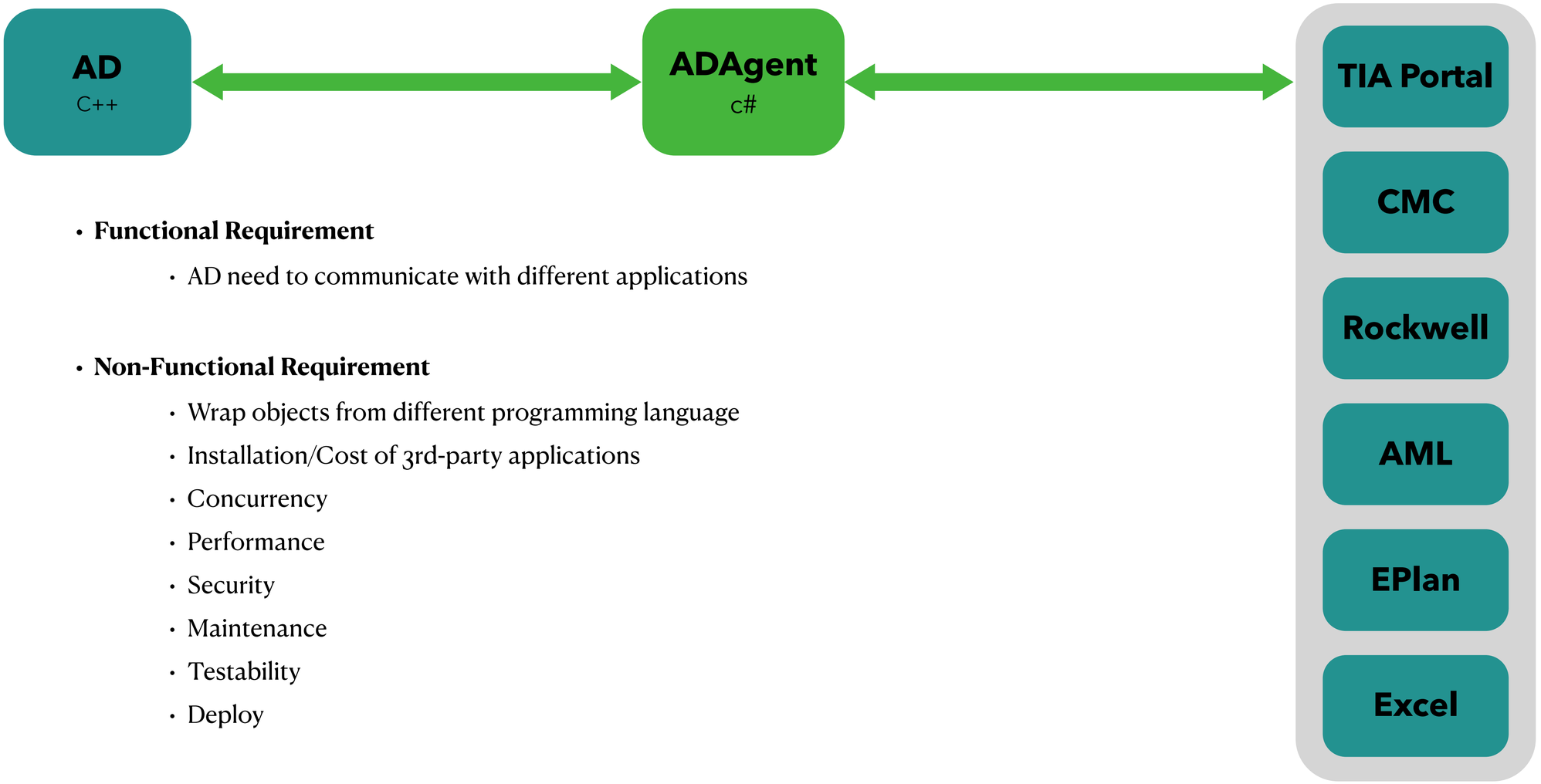
- **Communication**
    - Knowledge Sharing
    - Context Translate
- **Technical**
    - Architect Design
    - Code Review
    - Non-functional requirement analyse
    - Coding



# Automation Designer



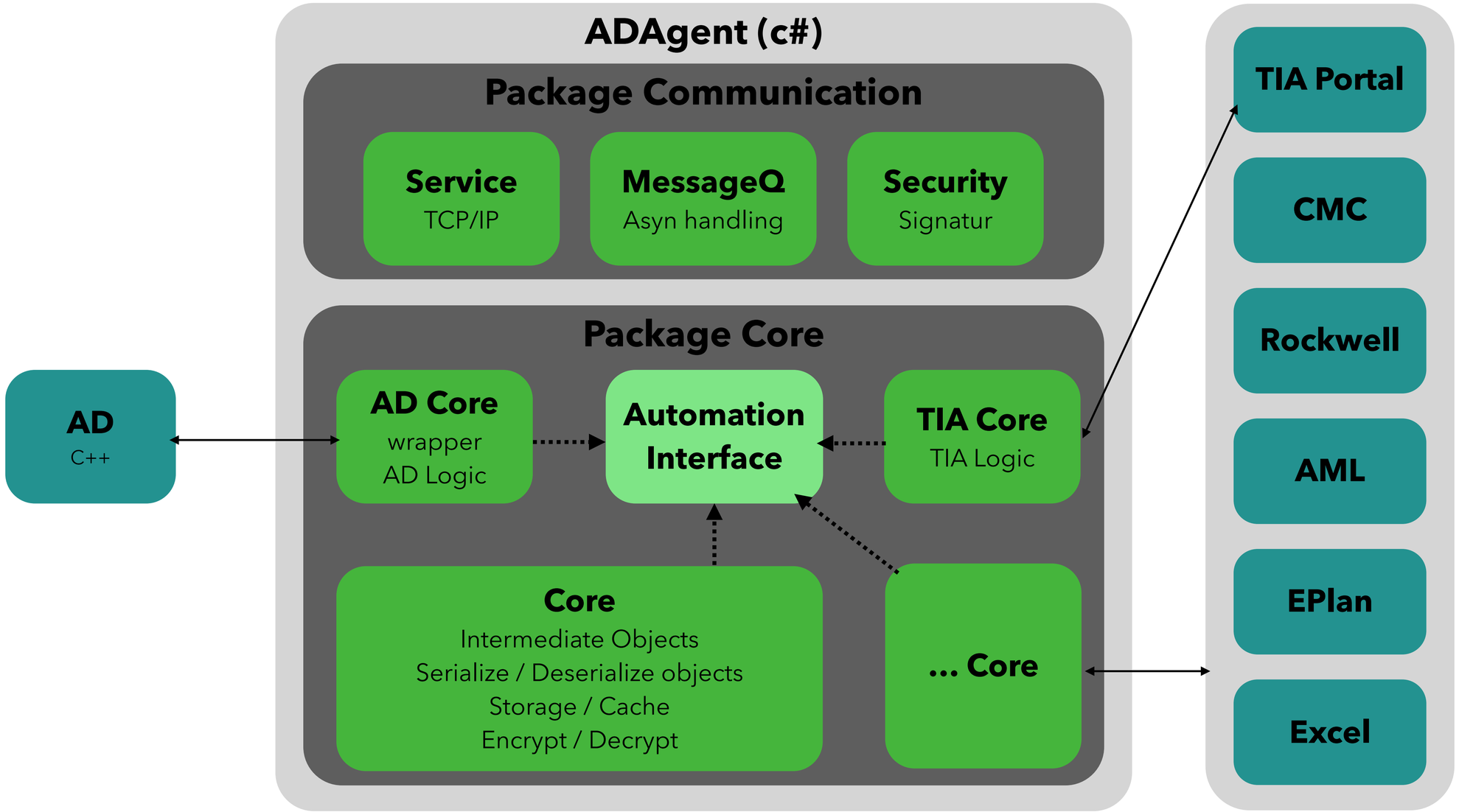
# Automation Designer



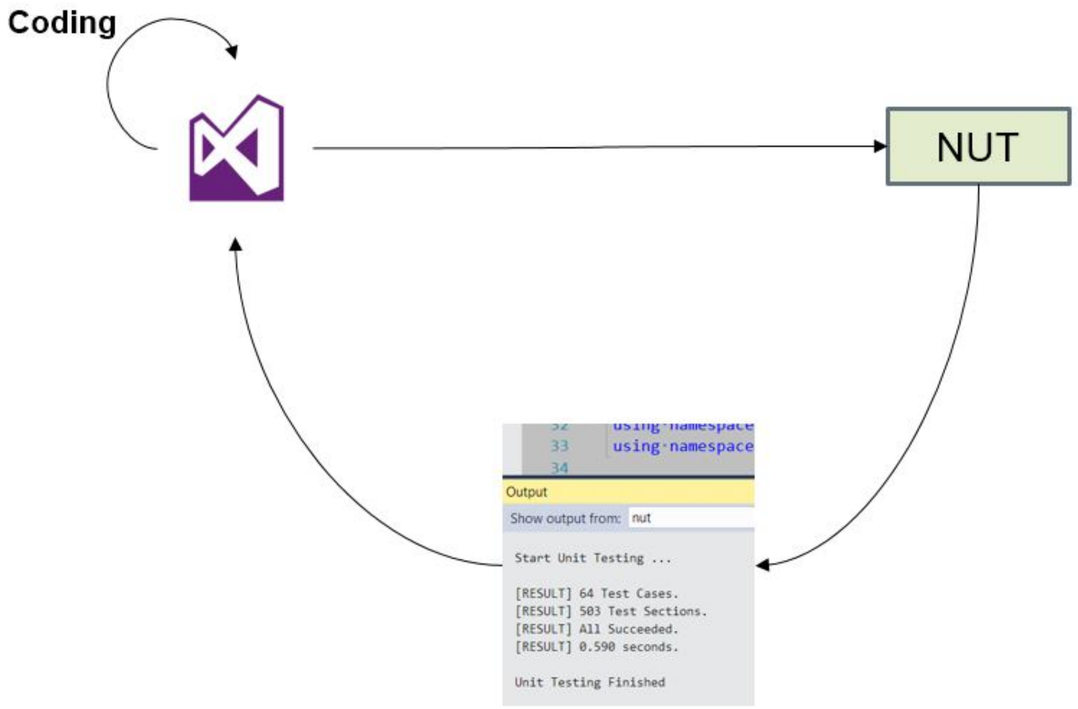

- **Functional Requirement**
  - AD need to communicate with different applications

- **Non-Functional Requirement**
  - Wrap objects from different programming language
  - Installation/Cost of 3rd-party applications
  - Concurrency
  - Performance
  - Security
  - Maintenance
  - Testability
  - Deploy

# Automation Designer



# Native Unit Test




VS Integrated

### 3.3 Simple Example [edit]

```
NUT_SUITE(MyTestSuiteName)
{
    NUT_CASE(MyTestCaseName)
    {
        NUT_SECTION("MyTestSection")
        {
            bool myExpectation = <Test Code>;
            NUT_EXPECT(myExpectation, "Error Message by failure");
        }
    }
}
```

Easy Coding with Macro

# Github Project

## Doe

This project built with an idea different as usual Machine Learning. Instead of normal case, we mining huge data and train model very well, here is data very limited. In real industry world, to calculate one useful data could cost several days, that is why the data is so limited.

The idea here is we train with limited data, and try to get best model. With this model, we can predict with huge faked data. And Engineer reevaluate the best predicted results, check if it is really useful in real world.

Surprise thing is this idea works, we tried this with real engineering project and help the engineer find best solution quickly. And this will save more than 90% engineering time in best case.

https://github.com/SammyRF/Doe