CMMI:
Project Management

Adeline Wu
awu1025@umd.edu
Science, Discovery, and the Universe
Electrical Engineering

Rite Solutions.

Select Computing, Inc.
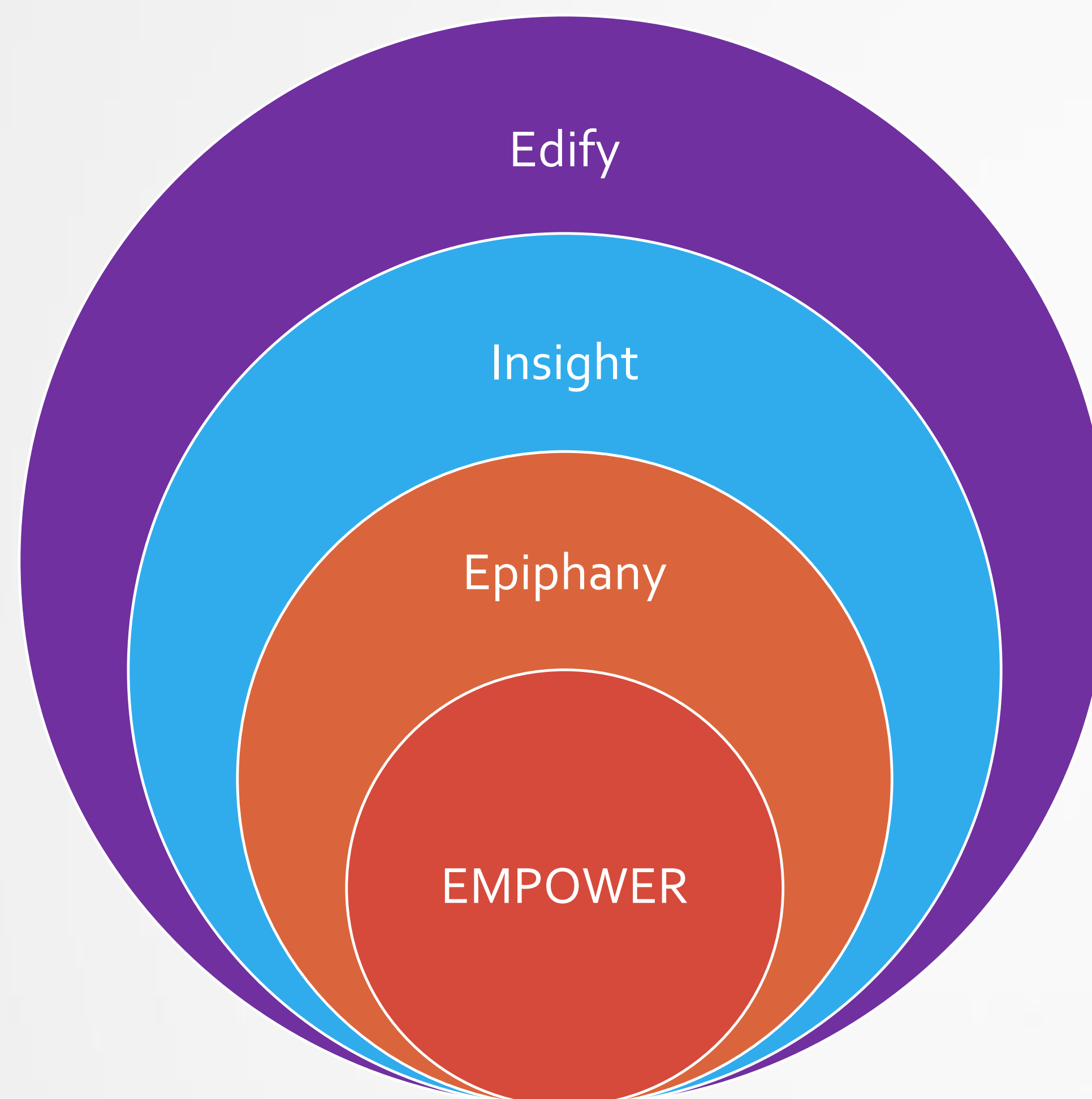
College Park **scholars**

Introduction

Goals:
- Be acquainted with SCi Way
- Review documents regarding management practices
- Apply for Capability Maturity Model Integrated (CMMI) Level 5
- Apply for Project Management Professional (PMP) certification

Deliverables:
- "Lessons Learned" template
- EMPOWER Service Management Practice
- EPIPHANY Project Management Practice
- INSIGHT Engagement Management Practice
- EDIFY SCi Foundation Practice
- ENGAGE Technical Solution Practice

Edify
Insight
Epiphany
EMPOWER

Company Practices & Documents

Process

1. Review company documentation
2. Memorize which documents provide details for different domains
3. Become acquainted with Scrum and Agile process frameworks
4. Create a "Lessons Learned" template for project work
5. Create backlogs and documentation for project work
6. Review project management plans for specific projects (Ashwin Clinical Data Repository, version 1.2)

Methods

- Reviewed EPIPHANY
  - Updated project work framework according to CMMI regulations
- Contacted mentor regularly
  - Scheduled calls every Friday to discuss assigned work
  - Provided guidance/feedback on finished work
- Reviewed EDIFY and ENGAGE
  - Technical solution practice closely mirrored curriculum in introductory engineering classes
  - Allowed understanding of real-world applications of problem solving

Future Work

Due to my elementary experience in software development and programming, my mentor granted me access to several existing projects to see firsthand how working on software collaboratively was conducted. Once I have strengthened my skillset in multiple programming languages (Java, C, C++, etc.), I will be allowed to participate in future programming projects. I currently have very limited knowledge in a single basic language, so exposure to other languages will help me grow as an engineer and a programmer.

Conclusions

I was assigned supervision of a governmental application to familiarize myself among multiple fields: exposure to the business realm is not easily attainable in a school setting. Most of my classes are technical in nature, as opposed to entrepreneurial, giving me advantageous exposure to the actual software engineering field.

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