The Battle Between Real-World Experience and Academic Learning Outcomes



Session Overview

- 1. Key Insights from the research
- Facilitating the Experiential Learning Actor Network
- Practical Tips for aligning realworld experience with learning outcomes





Research Insights

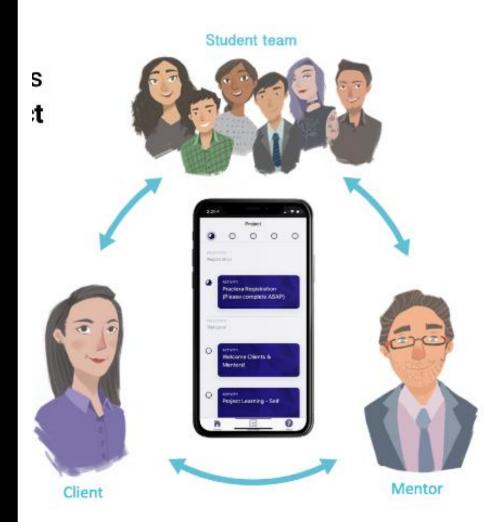


The Research Objective

- Traditional cooperative education (co-op) placements or internships can be very beneficial in orientating and preparing graduates for the workplace (Ambrose & Poklop, 2015)
- However, they are impractical for adult, non-traditional students who are already working full- or part-time while they are in school
- These important and often formative experiences are thus out of reach for these students, effectively creating a two-tier system where non-traditional and adult students, many of whom are from low-income or underrepresented minority (URM) populations, are left behind.

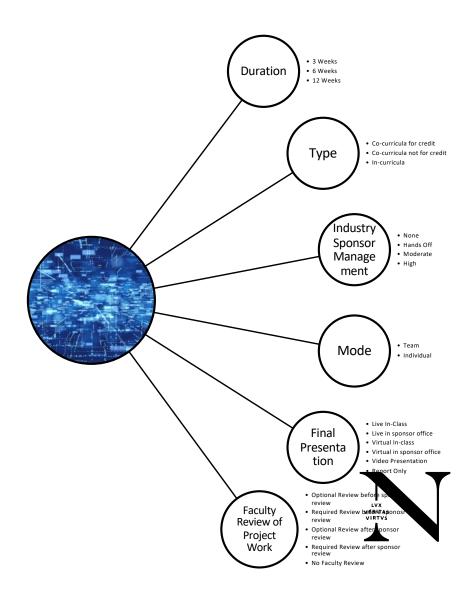
What we've learned so far

- Faculty, students and industry sponsors all bring different expectations, intentions and objectives to the collaboration
- For an effective collaboration that achieves objectives each actor (faculty, students and industry sponsors) needs to:
 - Understand each others' expectations and objectives
 - Learn their 'new role' in the learning process
 - Be in a constant state of re-aligning expectations from start to finish



What we learned so far

- There are multiple variables within an internship model that:
 - Need to be decided on,
 - Need to be effectively communicated
 - Have trade offs in terms of time, quality and scale



Current Hypothesis

Alignment of expectations, motivation and outcomes can be intentionally facilitated using a socio-technical system

The Experiential Learning Actor Network



Actor Network Theory

Everything in the natural and social world exists in a constantly shifting network of relationships

Each actor (whether human or technical) is an equal actor in the system.

Standby for the NERDY explanation

A hypothetical experiential learning actor network theory

- STARTING MOTIVATION = (Actor1 Perceived input Actor1 Perceived Output) + (Actor2 Perceived input Actor2 Perceived Output)
- Each actor inputs starting motivation (fuel) into the network
- Actor Motivation is positively or negatively impacted by the actions of other actors
- Motivation (fuel) adds or subtracts momentum from the network
- Non rational actors can REACT or RESPOND to interaction (friction points) with other actors
 - Reacting to momentum = neutral or negative impact on momentum
 - Responding to momentum = positive impact on momentum (acceleration)
- Rational actors can only REACT to an interaction as it is designed to REACT but this reaction still has an impact on the momentum
- The greater the momentum in the network the greater potential for intended outcomes for each actor.
- The greater the alignment of intended outcomes of the actors the lower potential there is for friction points to negatively impact the momentum of the network.

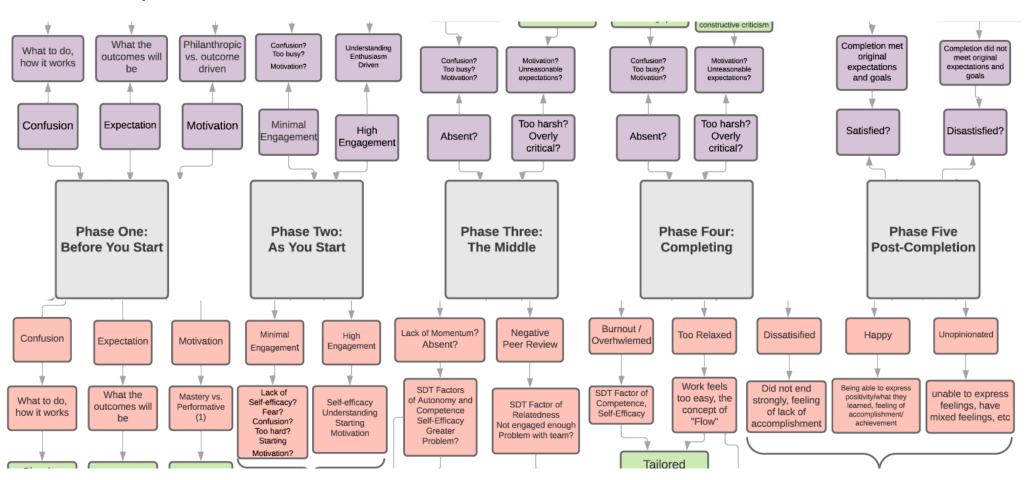
Now let's make this PRACTICAL

Phases of an Experiential Learning Experience

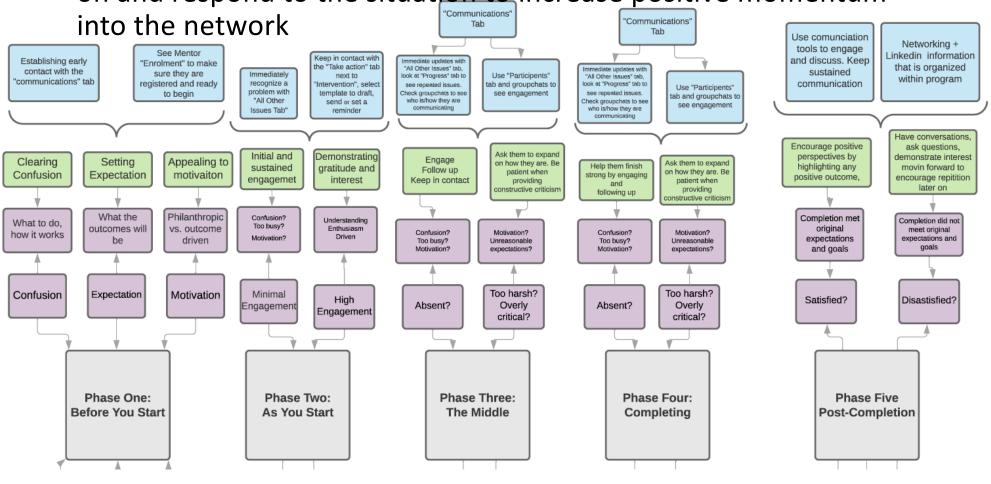
Phase One: Before You Start

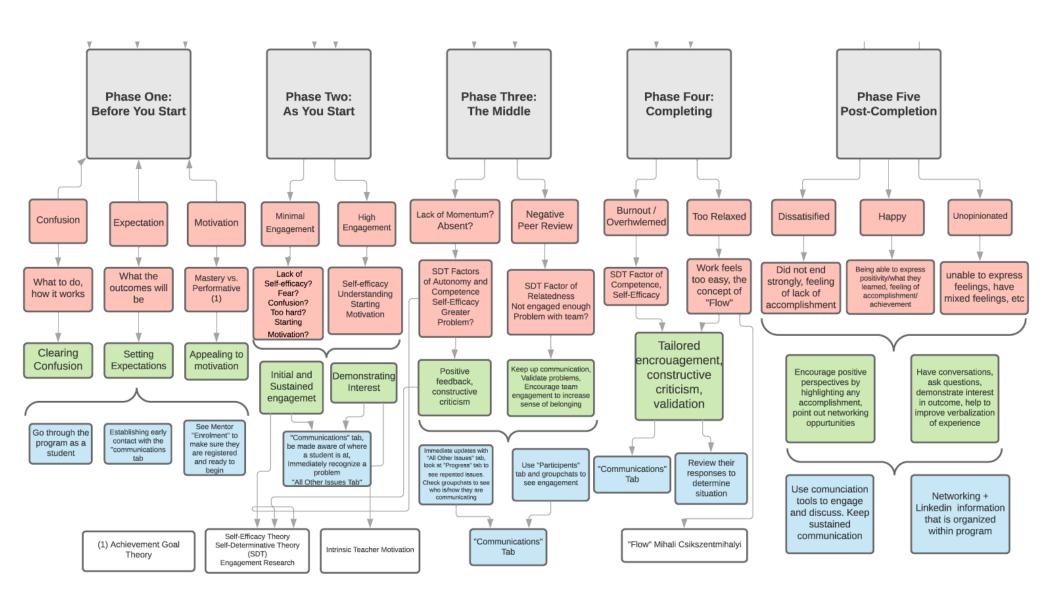
Phase Two: As You Start Phase Three: The Middle Phase Four: Completing Phase Five Post-Completion

Different Student/Industry Sponsors ACT in different ways at each phase



Faculty/Coordinator enabled by technology can know what is going on and respond to the situation to increase positive momentum





Aligning real-world experience with learning outcomes



Tips for aligning expectations, motivations & outcomes throughout an experiential learning program

1. Design 'suggested' industry sponsor projects that align with course learning outcomes



Engagement Analysis

Evaluate your organization's social media strategy



Technology Evaluation

Evaluate & conduct competitor analysis of a technology product



Social Media Coordinator

Plan & execute a social media plan for the summer



Graphic Design Assistant

Evaluate and recommend tools to improve visual appeal of marketing materials



Business and Non-Profits

Public Health



Technology Quality Assurance

Test & report back on user experience of new technology product features.



Digital Activities Instructors

Provide community and interaction for kids



Digital Tutor

Help High School, Middle-School & Elementary School Kids catch up on learning they missed



Impact Assessment

Do an impact assessment of a business initiative (Social Media Analysis, Key Word Searches) and write up a report on the impact of the initiative



Data Cleaning/Analysis

Data Cleaning and Basics Analysis to assist with business decisions and reporting



Public Health Policy

Evaluate an existing public health policy and make recommendation of changes in a post COVID context.



Public Health Campaign

Repurpose a an existing Public Health Campaign for a GEN-Z audience



2. Set a clear project structure with deadlines so that everyone knows what is expected of them

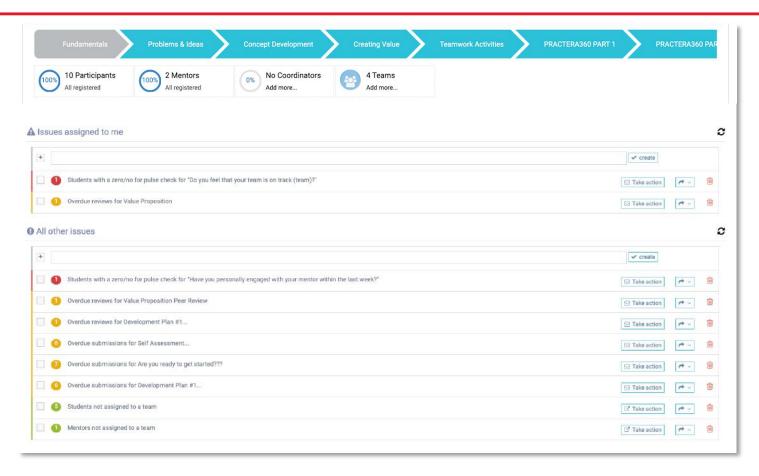
Project Plan

Project Execution

Project Presentation

Week#	Topic	Events	Deliverables
0	Welcome to your Virtual Internship	Students invited to enroll, complete platform orientation, Remote working activities	Self-Assessment # 1 + Skill Development Plan
1	Project Plan	Project Kick-Off Meeting with Supervisor Develop a detailed plan, approach for completing the Project.	Project Plan
3	Project Investigation	Deep dive into project, conduct research to understand the project.	
2	Project Execution	Project Execution	Status Update # 1
4	Project Execution	Project Execution	Self - Assessment # 2 Skill Development Plan Revision
5	Project Report	Create Project Report and put final touches on Project	Status Update # 2
6	Project Presentation	Create a presentation that presents your project to your supervisor	Project Presentation + Project Report Self-Assessment # 3 + Reflection

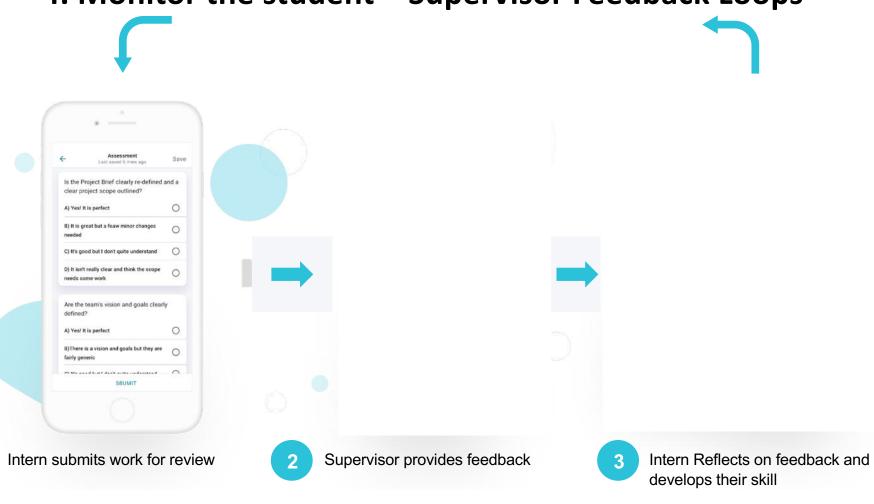
3. Use real-time learning analytics to monitor collaboration







4. Monitor the student – Supervisor Feedback Loops



Want to join the research collaboration and test it out?

Express interest - https://bit.ly/3aJserS



For more in-depth explanation

 $\frac{https://link.springer.com/article/10.1007/s11528-020-00515-2}{00515-2}$



Dr Nikki James

Industry Fellow – The Center for the Future of Higher Education & Talent Strategy Northeastern University

Senior Research Fellow – Practera

Ni.james@northeastern.edu +1 857 278 8528

