# Memorandum of Agreement Form

## **TECHNOLOGY ENTREPRENEUR CENTER**

This Memorandum of Agreement Form is for students enrolled in the course TE 401: Developing Breakthrough Projects. NOTE: Students will not be able to begin their work until this form is received by TEC Academic Services and final approval has been given.

Stud	lent Name_	Shihyu Ho					
UIN_	650763648	Phone Number 1(217)841-2863					
Illino	ois Email	syho2@illinois.edu					
	ent Year in	1 of year magtarla					
Anti	cipated Gra	aduation (SEMESTER & YEAR)Fall, 2024					
Hom	e Departm	entElectrical and Computer Engineering					
		ne					
Supervisor EmailSupervisor Phone Number							
	Day-to-day	Project Supervisor Name (if applicable)					
E	EmailPhone Number						
Com	pany/Proje	ect Name Crypto Quant Trading Bot					
Com	pany/Proje	ect Address CryptoQuantTrading					

Future Arbitrage is special in crypto market that once buyers buy long of spot and buy short of future, they will not have to bear the risk of price increase and decrease. On the other hand, the special mechanism of buying

crypto future, buyers can earn profit when the price is expected to increase in future.

**Brief Description of the Project** (attach additional pages if necessary)

The target of this project aims to build a trading bot using crypto firm Binance API to get the data of current buying and selling price. Then I will run this strategy to backtest history dataset. Finally, the trading bot will manipulate the virtual account to test the trading strategy.

The long-term target is to build a service that can automatically doing this kind of trading to earn money.

PAGE 1 OF 3 | CONTINUE TO NEXT PAGE



## Memorandum of Agreement Form PAGE 2 OF 3

## **TECHNOLOGY ENTREPRENEUR CENTER**

**Scope and Content:** Please list the scope, content, and skills to be obtained and/or sharpened during TE 401.

Coding: Back-end API integration, Machine learning Finance: Arbitrage, Crypto, Candlestick chart  Which of the following leadership and/or innovative skills do you anticipate learning and/or building upon? (MUST CHECK AT LEAST 4 BOXES) You will report on your progress towards these in your midterm and final papers/projects.										
☐ Financing ☐ Fundraising ☐ Bootstrapping ☐ Grants ☐ SBIR ☐ Harvesting ☐ Exit Strategies ☐ Marketing ☐ Marketing Plan ☐ Competitive Strategy ☐ Market Research ☐ Talking to Customers ☐ Validating the Idea ☐ Prototyping ☐ Sales ☐ Distribution ☐ Sales Process ☐ Closing a Deal	<ul> <li>□ Operations</li> <li>□ Outsourcing</li> <li>□ Manufacturing</li> <li>□ Supply Chain</li> <li>☑ Business plan</li> <li>☑ Product Development</li> <li>□ Opportunity Creation</li> <li>&amp; Identification</li> <li>□ Structure of a Business</li> <li>□ Legal</li> <li>□ Accounting</li> <li>□ HR</li> <li>□ Company Formation</li> <li>□ Building a Team</li> </ul>	<ul> <li>□ Negotiations</li> <li>□ Technology Management</li> <li>□ Business Management</li> <li>□ Project Management</li> <li>□ Intellectual Property</li> <li>□ Social Impact and/or Grand Challenges</li> <li>□ Intrapreneurship</li> <li>□ Agile Startup</li> <li>□ Lean Startup</li> <li>□ Ethics</li> </ul>								
Start date Feb 1st	End date of participatio	n May 11st								
Number of hours/week (average Number of credit hours for TE of Meeting schedule (as agreed up	4014									

PAGE 2 OF 3 | CONTINUE TO NEXT PAGE





## Memorandum of Agreement Form PAGE 3 OF 3

## TECHNOLOGY ENTREPRENEUR CENTER

## **EVALUATION OF DELIVERABLES**

Describe specific course deliverables in the space below. Indicate the due date, if any, and approximate percentage of the final grade.

DELIVERABLE	DATE	GRADE %
Participation/Effort (e.g. weekly meetings, teamwork, time invested)		
Work Product (e.g. prototypes, code, data, demos, documentation)		
Midterm (e.g. report, presentation, poster)		
Final (e.g. report, presentation, poster)		

### **SIGNATURE**

I understand the expectations of my experience to be completed at the time and location noted on this agreement. The scope, content, and deliverables have been prepared in consultation with my experiential supervisor and project supervisor. I understand that the details of my experience and the deliverables may be used in publicity and recruiting by the Technology Entrepreneur Center and/or the College of Engineering.

Student Signature	Shihyu Ho		Date	2024/01/18	
APPROVALS					
TE 401 Supervisor Si	gnature		Date_		
TE 401 Day-to-Day S	upervisor Signatu	ıre (if applicable)			
Date					
OFFICE USE ONLY					
Date Received		Signature			
Comments					

### PLEASE RETURN THIS FORM TO:

tec@illinois.edu

PAGE 3 OF 3

