

### Turing Summer Program 2024

July 8		July 9		July 10		July 11		July 12	
Day 1 (Lilly/Abel)		Day 2 (Abel)		Day 3 (Mehmet)		Day 4 (Walid)		Day 5 (Nathan)	
9:30 AM - 11:00 AM	<b>Student check-in</b> Program Intro, Prashant/Lilly/Abel	<b>Lecture:</b> Body Area Networks for Mobile Health Jeremy Gummeson		<b>Lecture:</b> Intro to Robotics Hao Zhang (Oscar)		<b>Lecture:</b> Earable Systems for Healthcare VP Nguyen (Amir and Aziz)		<b>Lecture/lab:</b> Enabling Health with Wearables Ivan	
11:00 AM - 12:00 PM	<b>Icebreaker:</b> Spaghetti Tower Riley, Anh, Jason, Angelica	<b>Lab:</b> Sensor Data Exploration with Low Power Sensors Jeremy Gummeson		<b>Lab Tour:</b> Human-Centered Robotics (HCR) Hao Zhang (Oscar)		<b>Lab:</b> Health Care Sensing VP Nguyen (Amir and Aziz)		<b>(*)Scripted Lab:</b> Step Count (cont) Heart Rate Lilly/Swetha/Riley/Anh	
12:00 PM - 1:30 PM	Lunch	Lunch		Lunch		Lunch		Lunch	
1:30 PM - 2:30 PM	<b>Lecture:</b> Introduction to CS, Prashant	<b>(*)Lab:</b> Getting Started with Python - Variables, Abel/Ajith/Jason/Angelica		<b>(*)Lab:</b> If-else condition, Mehmet/Ajith/Jason/Angelica		<b>(*)Lab:</b> Loop, Walid/Ajith/Jason/Angelica		<b>(*)Lab:</b> Loop (cont) Nathan/Ajith/Jason/Angelica	
2:30 PM - 3:30 PM	<b>(*)Lab:</b> Introduction to Computer Programming, Abel/Ajith/Jason/Angelica	<b>(*)Lab:</b> Getting Started with Python - I/O Abel/Ajith/Jason/Angelica		<b>(*)Lab:</b> If-else condition (con't), Mehmet/Ajith/Jason/Angelica		<b>(*)Scripted Lab:</b> Step Count Lilly/Ajith/Jason/Angelica		<b>(*)Lab:</b> Week 1 Recap Nathan/Lilly/Ajith/Jason/Angelica	
3:30PM - 4:00 PM									
July 15		July 16		July 17		July 18		July 19	
Day 1 (Dan Holcomb)		Day 2 (Wayne Burleson)		Day 3 (Marc Liberatore)		Day 4 (Amir)		Day 5 (Brian Levine)	
9:30 AM - 11:00 AM	<b>Lecture/Lab:</b> Introduction to computer hardware (boolean logic, integrated circuits, fabrication)	<b>Lab:</b> Introduction to Cryptography		<b>Lecture:</b> Introduction to Blockchain		<b>Lecture/Lab:</b> Anonymous communications		<b>Lab:</b> Intro programming related to the scripted lab	
11:00 AM - 12:00 PM	<b>Lecture/Lab:</b> Introduction to hardware fingerprinting for privacy and authentication	<b>Scripted Lab:</b> Block Ciphers		<b>Scripted Lab:</b> Hash function		<b>Lecture:</b> Security and AI		<b>Lecture:</b> Introduction to digital forensics (including breaks)	
12:00 PM - 1:30 PM	Lunch	Lunch		Lunch		Lunch		Lunch	
1:30 PM - 2:30 PM	<b>Lecture:</b> Introduction to reverse engineering	<b>Lecture:</b> Embedded Security		<b>Lecture/Lab:</b> Public Key Cryptography		Program Tour: Server Room Abel/Mehmet/Lilly		<b>Scripted Lab:</b> Digital Forensics	
2:30 PM - 3:30 PM	The Imitation Game Anh/Riley	<b>Program Tour:</b> ECE Labs				Program Tour: Campus Walk Jorge/Lilly/Mehmet/Riley/Anh			
3:30PM - 4:00 PM		<b>Lecture:</b> Women in Cryptography		Project Idea/Scope Discussion (Lilly/Abel/Mehmet/Nathan/Jorge)		<b>Program Tour:</b> Makerspace 3D and Laserprinting Abel/Nikko/Lilly			
July 22		July 23		July 24		July 25		July 26	
Day 1 (Abel)		Day 2 (Jorge)		Day 3 (Lilly)		Day 4 (Lilly/Abel)		Day 5 (Lilly/Abel)	
9:30 AM - 11:00 AM	<b>Lecture:</b> Unique Sources of Energy Friction, Temperature Difference Noman	<b>Lecture:</b> Optimizing Power and Performance of Edge AI Prashanthi		<b>Lecture:</b> Energy and Sustainability 4 Nikko		<b>Computers for Creativity:</b> Student Team Project Lilly/Abel/Nathan/Mehmet/Jorge		<b>Computers for Creativity:</b> Project Demo Lilly/Abel/Nathan/Mehmet/Jorge/	
11:00 AM - 12:00 PM	<b>Lecture:</b> Energy and Sustainability 1 David	<b>Lecture:</b> Energy and Sustainability 2 Mohammad		<b>Lecture:</b> Energy and Sustainability 5 Cooper					
12:00 PM - 1:30 PM	Lunch	Lunch		Lunch		Lunch		Lunch	
1:30 PM - 2:30 PM	<b>Lecture:</b> Self-driving Car Abel/Riley	<b>Lecture:</b> Energy and Sustainability 3 Abel		<b>(*)Lab:</b> Functions Lilly/Ajith/Anh/Angelica		<b>Computers for Creativity:</b> Student Team Project Lilly/Abel/Nathan/Mehmet/Jorge		<b>Student Hangout:</b> Fun and Games Jorge/Mehmet/TAs	
2:30 PM - 3:30 PM	<b>Show and Tell:</b> Self-driving Car Abel/Riley	<b>(*)Lab:</b> Lists/Arrays/Sets and Functions? Jorge/Ajith/Anh/Angelica		<b>Show and Tell:</b> Mixed AR/VR Yasra					
3:30PM - 4:00 PM						<b>Panel session:</b> Life as a CS Undergraduate at UMASS Riley/Anh		<b>Program Debrief</b> Prashant/All	