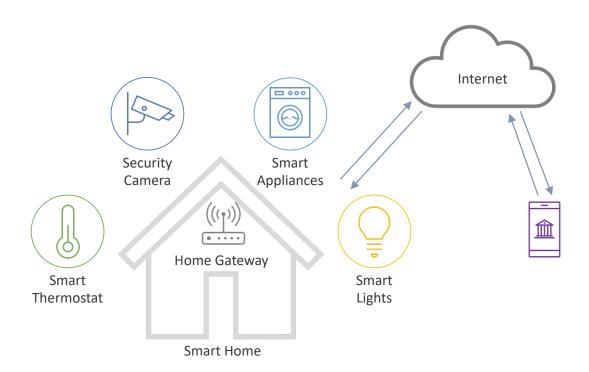
## University of Arizona ECE 509 – Cybersecurity: Concept, Theory, and Practice Fall 2023

## Homework 01 Due Tuesday, September 12, 2023, 11:59 PM Upload to D2L as a PDF file

Apply threat modeling to the smart home architecture shown below.



Follow all the steps in threat modeling (except step 4: validate), identify 5 potential threats, apply STRIDE, and DREAD models, identify the impacted assets, and impacted entry points, and describe the mitigation strategy to handle each threat. Use the following tables as guidelines.

Threat Description	Threat Category (STRIDE)							
	Spoofing	Tanananina	Danudiation	Information	Denial of	Elevation of		
		Tampering	Repudiation	Disclosure	Service	Privileges		

Threat	Threat Risk Assessment (DREAD)							
Description	Damage	Reproducibility	Exploitability	Affected	Discoverability	DREAD		
Description				Users		Score		

Threat	Impacted Assets							
Description	Compute	Physical	Availabilita	Integrity	Data	Data	Data	
	Resource	Safety	Availability		Integrity	Availability	Privacy	

	Impacted I					
Threat Description	Embedded HW/SW	Communication Channels	Mitigation Strategies			