## Lecture 11 - February 14

Reactive System: Bridge Controller

- Lab2 released
- WrittenTest 1 guide released
+ Verify EECS account on a WSC machine
+ Verify PPY account and Duo Mobile on eClass
- Review Session at 7pm, Wednesday? (Zoom)
$\theta$ : event pancmeters?
PO/VC Rule of Invariant Preservation: Components

(A(C). list of axioms
v) and (12) variables in pre- and post-state

E(c, v): effect of an event's actions I(c) (v): list of invariants

BAP of ML-att: Constanes varidules
$\left\langle n^{\prime}\right\rangle=\langle n+1\rangle v^{\prime}=E(c, v)$ BAP of an event's actions





Justifying Inference Rule: OR_L

$$
\begin{aligned}
& A \Rightarrow C \equiv \text { Tme }
\end{aligned}
$$

$$
((P \Rightarrow R) \wedge(Q \Rightarrow R)) \Rightarrow(P \vee Q \Rightarrow R) \equiv \text { TMQ } .
$$

(dero video).

Example Inference Rules


