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## ECE1657 Project: Stochasitc Makrov Games for Multi-Agent Reinforcement Learning

## Proposal (10 November)

- 1/2 Page
- Should broadly highlight the research interest of Multi-Agent Learning and its growing need
- Describe the objective of the project (to explore the role of Stochastic Markov Games in MARL and various agent interactions)
- Briefly touch upon the algorithms and their differences (QMIX, VDN, COMA, IQL)
- Describe the environment setup (StarCraft II) and why is this suitable from a Game Theoretic perspective
- End up by laying out the outcomes expected (coordination must prevail, agent ineractions vary as per cost reduction, obtaining optimal strategies to defeat the enemy)