**Research Review By Ng Fang Kiang**

**Udacity – Artificial Intelligence Nanodegree (Class of 2017)**

**Key Developments in the field of AI planning and search**

**STRIPS**

In 1971, the Richard Fikes and Nils Nilsson has developed a Stanford Research Institute Problem Solver (STRIPS), which is an automated planner that written by first order logic language. There is a lot different problems can be solve by using STRIPS. For example, Rubik’s cube, stacking blocks, navigating a robot in Shakey’s World, Starcraft build orders, and a lot more. The robot in Shakey’s World is one of the first robots built with AI technology. It’s controlling by STRIPS with capable of moving his camera eye, moving objects and traveling from place to place while dealing with unexpected obstacles. For future development, they use the Action Description Language (ADL) and the Planning Domain Definition Language (PPDL) which has more expressive subsets of the First-Order Predicate Logic (FOPL).

**GraphPlan**

**Partial-order planning**

**Referrence**

* <http://ai.stanford.edu/~nilsson/OnlinePubs-Nils/PublishedPapers/strips.pdf>
* <https://en.wikipedia.org/wiki/STRIPS>
* <http://www.cs.ucc.ie/~dgb/courses/ai1/19-notes.pdf>