Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

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Work Schedule: 40 hrs/week
Lab Location: 414B HRBB

Research Advisor: Prof. Nancy Amato
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Research Topic: Composable Group Behaviors

Research Goals: Our goal is to investigate methods to facilitate the generation of complex group behaviors for applications such as games, virtual reality, robotics and biological simulation.
Our general approach is to provide a framework that automatically combines simple composable behaviors into more complex behaviors. I will be working on creating more basic behaviors that will be applicable to a wide range of scenarios.

Tasks:
1. Understand the basic concept of motion planning algorithms and basic flocking behaviors.
2. Create more basic behaviors
3. Verify existing basic behaviors
4. Modify some existing basic behaviors into more complex ones
5. Generate complex behaviors from basic behaviors

Deliverables:
1. Simple program using python language
2. Analyze existing behavior codes
3. Integrate simple behaviors into more complex behaviors
4. Validate results and performance of behaviors
5. Write final report
6. Presentation of final project

Dates:
06/01/05 - 06/04/05
06/10/05 - 06/16/05
06/17/05 - 07/17/05
07/18/05 - 07/25/05
07/26/05 - 08/05/05
08/06/05 - 08/08/05

Signatures:

Student Researcher

Faculty Mentor

Date: 6/10/2005
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