

**GENERAL INFORMATION AND DESCRIPTION OF PROJECT**

SEDP # / DATE:

Swarm Behavior

Presentation time: 2:30 to 2:55 p.m.

1.	<b>Department</b>	ECE		
2.	<b>Project Title</b>	Swarm Behavior		
3.	<b>Students</b>	<b>Name (first, last)</b>	<b>Gender</b>	<b>Local Phone Number</b>
		Karan Kohli	M	269-598-0551
4.	<b>Sponsor</b>	None		
5.	<b>Permission</b>	N/A		
6.	<b>Faculty Advisor</b>	Dr. Ralph Tanner		
7.	<b>Description</b>	<i>The project implemented a theoretical code developed by Dr. Shawn Sadden from California Institute of Technology onto four mobile robots. The code, which had been developed in Matlab™, provides a capability for a swarm of robots to navigate autonomously around an obstacle. This project rewrote the code for the physical robots. Two of the robots used Parallax™ processors and two robots used Brain-Stem™ processors. In each case, the code was translated into the processor's native language. The robots were then tested using several test courses</i>		

**MAILING INFORMATION** (U.S. addresses only)

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