

## The Cast

**Narrator** (Kaustubh)

**Goose** (Christopher)

**Naturalist** (Jeannette)

**Pilot** (Marc)

**Mythbuster Adam** (David)

**Mythbuster Jamie** (Kyle)

**Airport Manager** (Michael)

**Goosebuster 1** (Lindsey)

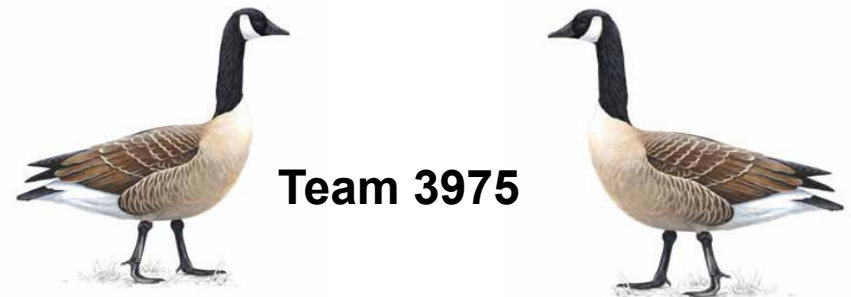
**Goosebuster 2** (Elise)

**Goosebuster 3** (Alex)

**Technical/Effects** (Kyle)

# Team NXtreme Presents...

## A Problem Most Fowl



**Team 3975**

## Nxtreme's Research At a Glance

**Research Skit:** NXtreme and a Problem Most Fowl

**Community:** The Leesburg Executive Airport

**Topic:** Reducing the number of geese at the airport.

**Transportation Related Problem:** Bird strikes (by geese) can cause critical damage to airplanes and lead to fatalities. This problem concerns the safety of airplane transportation.

**Where else does this problem exist?** This is a problem for every airport and aircraft.



A prototype of the GB9000

**Current Solutions:** Airports are currently using herding dogs, such as border collies, to chase away geese. Another popular solution is the use of sound systems to broadcast predator and geese alarm calls.

**Our Innovative Solution:** The GB9000 is a ground-based, solar powered, fully autonomous robot. It is programmed to coordinate with other GB9000's, using actions similar to a herding dog. To deter geese, the robot is equipped with a synthetic coyote coat, low-voltage taser, and a powerful sound system to produce alarming calls.

**Sources of Information:** We used the internet to find articles, talked with an Audubon naturalist at Broadlands Nature Center, and spoke with Mr. Deike, the manager of the Leesburg Executive Airport.

**Community Outreach:** We shared our findings at our local library, with our friends and family, and posted a video on YouTube.