

1. Introduction to the Duck Project

UFO Doctor, Dec 16th, 2011

The Duck project deals about a novel acoustic distance and direction finding method.

Miru (USA) and UFO Doctor (CH) are exploring an acoustic method based on FSK (Frequency Shift Keying) and PLL (Phase Locked Loop) to measure the distance and the orientation of an object within a 7 meter range of a base unit.

A first application of this method is the acoustic control of four Model Baby Ducks by a Model Mama Duck, swimming on a lake.

Miru is a well known expert in software, UFO Doctor is known in sensor technology. We both were present in the Rcgroups writing proposals for better controlling the Parrot ARDrone:

<http://www.rcgroups.com/forums/showthread.php?t=1420951&highlight=tipro>

The following reports describe our first attempts and experiments. These reports are listed chronologically and nobody knows where the journey will end...

Please feel free to contact us with comments and application ideas!

Have fun and kind regards!

Miru and UFO Doctor