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**CONTACT:**

Havell Rodrigues  
Bodkin Design & Engineering, LLC  
P.O. Box 81368  
Wellesley, MA 02481  
617-795-1968  
hhr@bodkindesign.com

[www.bodkindesign.com](http://www.bodkindesign.com)

**DATE: February 2004**

**HEADLINE: Bodkin Design awarded contract to develop wide FOV Camera for J-UCAS**

**WELLESLEY, MASSACHUSETTS - February 2004**

Bodkin Design and Engineering, LLC has been awarded a \$70,000 development contract from the U.S. Navy to develop a wide field-of-view camera for the Joint Unmanned Combat Air System (J-UCAS). This 6-month project is sponsored by the Office of Naval Research (ONR) at Arlington, VA under the Small Business Innovation Research (SBIR) program.

Bodkin Design's high-resolution camera utilizes an innovative wide-field anamorphic optic. The camera provides a 200° x 30° field-of-view. The camera is part of a machine vision system that will permit autonomous operation of Unmanned Air Vehicles (UAVs) on aircraft carriers. The camera works with algorithm-based gesture recognition software that identifies relevant obstacles, motions, people, and hand signals. The machine vision system makes the UAV replicate a pilot's taxiing behavior. This will allow flight deck operators to treat UAVs and manned aircraft identically, maintaining normal flight deck procedures.

The proposed machine vision system will directly benefit the DoD UAV and UCAV programs. It will make naval flight decks safer and improve operational efficiency. Furthermore, this technology can be applied to other military applications including surveillance, search and rescue, and the interface between man and robotic vehicles. Commercial applications for the wide field camera include machine vision-based industrial applications and perimeter surveillance systems.

**About Bodkin Design & Engineering, LLC**

Bodkin Design and Engineering, LLC is headquartered in Newton, Massachusetts and provides product development, innovation, and engineering services to the industrial, commercial, military and research communities. Founded in 1988 the firm has developed numerous patented devices, and overseen the successful introduction of a diverse spectrum of products, ranging from miniature infrared cameras and dental imagers, to spectroscopic instruments for drug discovery. To learn more, visit our website at [www.bodkindesign.com](http://www.bodkindesign.com).