EIA EDMONTON INTERNATIONAL AIRPORT

New autonomous security vehicle set to patrol EIA's perimeter fence

Alberta Centre for Advanced Microprocessor and Nanotechnology Products (ACAMP) and EIA produce self-driving security vehicle

July 24, 2018 (Edmonton, AB) – An autonomous security all-terrain vehicle (ATV) developed by the Alberta Centre for Advanced MNT (microprocessor and nanotechnology) Products (ACAMP) is ready to patrol the perimeter security fence at Edmonton International Airport (EIA). The unarmed vehicle is controlled remotely by humans and can also drive autonomously, incorporating machine-learning to perform its tasks.

"Safety and security is our number one priority at EIA and the autonomous ATV security vehicle will enhance our patrol of the perimeter fencing that secures the 7,000 acres of land at our airport," says Steve Maybee, EIA's Vice-President of Operations and Infrastructure. "The partnership with ACAMP to build the vehicle is also part of a larger effort to foster innovation, collaboration and economic diversification through our Airport City's growing number of technology and aerospace companies."

The new vehicle system includes navigation, path planning, obstacle avoidance, animal and human recognition, communication systems to airport security, geo-fencing, situational awareness and analysis and more. The autonomous ATV patrols will focus on the following:

- Identifying damage to the chain-link fence and fence posts, verifying barbed wire is taut and undamaged, and detecting holes or gaps under the fence
- Detecting human or animal activity
- Searching for obstacles using LiDAR (Light Detection and Ranging)

"The partnership with EIA has helped us build a customizable platform that uses the latest in artificial intelligence, telematics, communications and other technologies that has application worldwide," says Rosy Amlani, ACAMP's CFO and Vice-President of Business Development.

EIA is a member of the Advanced Systems for Transportation Consortium established by ACAMP and supported by the Government of Alberta. ACAMP is a member of the Alberta Aerospace and Technology Centre at EIA. ACAMP and EIA were able to harness technologies developed by consortium members to construct and test the autonomous ATV security vehicle, readying it for regular use at EIA.

About Edmonton International Airport
Edmonton International Airport is a self-funded, not-for-profit corporation whose mandate is to drive economic prosperity for the Edmonton Region. EIA is Canada's fifth-busiest airport by passenger traffic and the largest major Canadian airport by land area. EIA offers non-stop connections to destinations across Canada, the US, Mexico, the Caribbean and Europe. EIA is a major economic driver, with an economic output of over $3.2 billion, supporting over 26,000 jobs. For more information, please visit: flyeia.com, follow @flyeia on Twitter, Instagram, Linkedin or Facebook.

About ACAMP
ACAMP is a unique technical organization, established in Alberta to support industry in the development and commercialization of advanced technologies. Since inception in 2007, ACAMP has grown to over 40 multidisciplinary engineers and support personnel with facilities located in both Calgary and Edmonton and clients numbering over 375 worldwide. ACAMP's capabilities support full product development of electronics hardware, firmware, sensors, embedded systems, subsystems and full systems. It is the only advanced technology product development center in Canada that provides support at each stage of product development process, from proof of concept through to commercial product.

-30-

Media Contact:
Chris Chodan, EIA   c: 780 700 3596   e: cchodan@flyeia.com

Note: If you do not wish to receive any additional news from EIA, please send an email marked "unsubscribe" to communications@flyeia.com