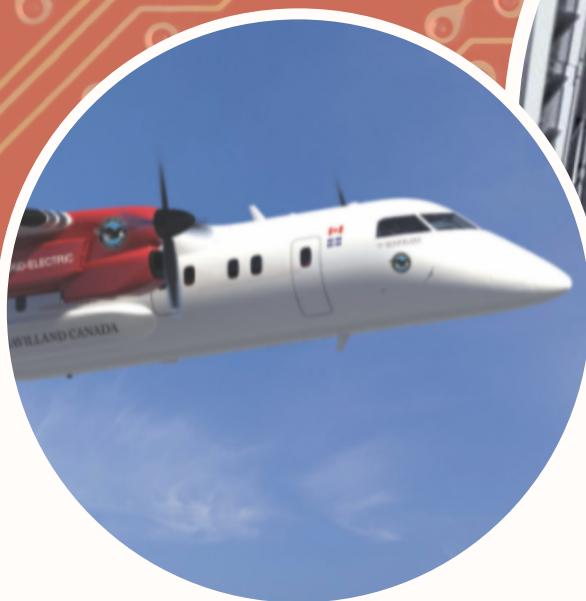


JULY 2021

SCAR ROBO

THE LATEST NEWS AND EVENTS FROM SCAR ROBO



FEATURED ON THIS MONTH'S NEWSLETTER:

SKiES: "De Havilland Canada, P&WC to bring hybrid-electric technology to the Dash 8-100"

Attabotics: "Canada's New Innovative Storage System"

Read below to learn more!

Summarized by: Farzad Inam

SKIES: “DE HAVILLAND CANADA, P&WC TO BRING HYBRID-ELECTRIC TECHNOLOGY TO THE DASH 8-100”

<<https://skiesmag.com/news/de-havilland-canada-pwc-hybrid-electric-technology-dash-8-100/>>

ATTENTION!

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INFORMATION
SESSIONS ON
WEEKENDS TO
RECRUIT
STUDENTS
INTERESTED IN:**

**1) LEADING
WORKSHOPS**

**2) DESIGNING
CHALLENGES FOR
OUR UPCOMING
ROBOTICS
HACKATHON**

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US IF INTERESTED**

Two of Canada's biggest aircraft manufacturers De Havilland and P&WC have recently developed a hybrid electric technology into a 8-100 flight demonstrator model plane. The significance of this new innovation is that it is expected to optimize performance in methods which reduce fuel burn and CO₂ emissions. Some other features of this new hybrid technology include advanced electric motors, controllers, and modified cockpit interfaces to accommodate these new pieces of equipment. The benefits are very substantial as it will allow airline carriers to not only save a lot of money, but it also supports Canadian aviation's initiative for environmental leadership setting an example for the world. Unfortunately, due to the lack of travelling amidst the Pandemic, they have not received a significant amount of orders to install this new hybrid-electric propulsion technology for aircraft companies as of yet.



A rendering of the Dash 8-100 HEP demonstrator. De Havilland Canada Image

ATTABOTICS: "CANADA'S NEW INNOVATIVE STORAGE SYSTEM"

<<https://www.cnbc.com/2020/06/16/attabotics-disruptor-50.html>>
<<https://www.canada.ca/en/innovation-science-economic-development/news/2020/12/government-of-canada-announces-contribution-to-next-generation-robotic-warehouse-solution.html>>

During the coronavirus pandemic, the demand for online retailers is surging exponentially. In order to compete with these online retailers such as amazon, kijiji, ebay, etc., retailers must focus on being able to get goods to the customer faster. This is where Attabotics comes in. Attabotics is a Canadian company based in Calgary, Alberta that develops a “robotics warehousing and fulfillment system intended to reinvent the supply chain management”. CEO and Founder Scott Gravelle says his company “replaces the traditional row-and-aisle configurations of warehouses with a storage structure inspired by ant colonies”. The main advantage of this system is that it saves space up to 85% compared to traditional storages which makes it possible to locate these Attabotics storages closer to metro areas where customers are more likely to live, ultimately speeding up the process of delivery. The automated robots in these ‘fulfillment systems’/storages do not just move back and forth to pick up goods. The Attabotics ‘shuttles’ go back and forth AND up and down, very similar to the movement pattern of ants in an ant colony. This company is rapidly growing currently, with a new massive fulfilment centre being built in San Jose, California in December 2020. This facility is only 340,000 square feet but can store as much as a traditional storage built on 1 million square feet of land, effectively reducing the real estate costs as well. In the same month, the Parliamentary Secretary to the Canadian Minister of Innovation, Science and Industry (Innovation and Industry), announced a contribution of \$34 million to Attabotics.inc.



Image of the insides of one of the storages in the fulfillment system.

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SUCCESS IS THE SUM OF SMALL EFFORTS, REPEATED.”

— R COLLIER

”

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