



MANUFACTURERS ASSOCIATION OF CENTRAL NEW YORK

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FOR IMMEDIATE RELEASE

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MACNY ANNOUNCES DANIEL BROWN OF SRC, INC. AS 2020 INNOVATOR OF THE YEAR

Syracuse, New York - MACNY, The Manufacturers Association, is excited to announce that Daniel Brown of SRC, Inc. has been selected as the 2020 Innovator of the Year. Brown was nominated by his co-worker Chris Capraro for his innovative developments in machine learning and neuromorphic computing.

Recently, Dan helped transition state-of-the-art machine learning methods for detecting very small moving objects in infrared camera imagery for testing with SRC's counter-UAS (C-UAS) technology. This is a tedious task for an operator, which is error prone and fatiguing. Dan's contributions have already shown significant promise at several C-UAS exercises and may soon help warfighters in the field.

Dan was also able to configure and develop software for a very low-size, weight and power (SWaP) computational system on a chip from NVIDIA called a TX2. This computer hardware uses approximately 10-15W of power, is less than 7 inches square and 2 inches thick and weighs about 3.5 lbs. Dan was able to decode the full video stream, perform machine learning for moving object detection, augment the video with target bounding boxes, and re-encode the video stream in real-time. This is a huge accomplishment and allows SRC to add critical, state-of-the-art machine learning to their existing C-UAS systems with minimal impact on SWaP.

Brown also recently developed, for the first time ever, parallel processing techniques for the neuromorphic True North system. At first, just a couple processors, then 16 and 32 - all working simultaneously. He processed synthetic aperture radar (SAR) imagery/targets, tanks and trucks using the Moving and Stationary Target Acquisition and Recognition (MSTAR) data for automatic target recognition, which he has briefed to military generals, congressmen and more.

In the nomination, Capraro stated, "Dan's efforts have enabled innovation at SRC and led the way in a variety of ways. Dan has focused his technical work on developing advanced hardware and software technologies that continually contribute to the main and critical objectives of our bio-inspired and machine learning efforts."

"From all of us at MACNY, I would like to congratulate Dan and SRC on their innovative accomplishments and receiving this well-deserved honor," stated MACNY President & CEO Randy Wolken. "Again this year, we received nominations for many well-qualified candidates who are considered outstanding innovators by their peers and colleagues. The Committee was thoroughly impressed by Dan's commitment to innovation and the continued progress and success he has brought to SRC, Inc. On behalf of the MACNY membership, we look forward to recognizing Dan and SRC for their many innovative achievements during MACNY's 107th Annual Celebration of Manufacturing."

MACNY's Innovator of the Year Award was created at the suggestion of MACNY member Executives and CEOs, as a way to nominate and recognize individuals within a company who consistently demonstrate forward thinking ideas in the areas of technology, innovation, and advancement of products and production.

Dan will be honored during MACNY's Virtual 107th Annual Celebration of Manufacturing. This two-week long celebration will include a series of videos and live Zoom events during the weeks of September 21 and September 28. To learn more, visit <https://www.macny.org/107th-celebration-manufacturing/>.

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MACNY, the Manufacturers Association, represents over 300 companies in a 26-county region in Upstate New York. Since 1913, the organization has provided human resource services, training, purchasing solutions, networking opportunities, and advocacy support for its members. For more information, visit www.macny.org.