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October 3, 2025

The Right Honourable Mark Carney
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa, ON K1A 0A2

Subject: Request for Federal Support and Funding for Project EduCube Canada in Support of Canadian Space and Security Initiatives

Dear Prime Minister Carney,

I am writing to respectfully request your attention and support for a uniquely Canadian innovation effort known as Project EduCube Canada, which intersects with both national security and space exploration. This initiative is directly aligned with the mandates of the Canadian Space Agency (CSA) and the Communications Security Establishment (CSE), and is particularly aimed at serving Canadians in uniform—those who defend, protect, and advance our national interests.

At the heart of EduCube's technical work is the development and application of 22-bit visual binary codes—a novel, optically based data representation system that enables highly secure, low-power, and resilient information encoding for space communications, remote deployments, and field-based operations. These codes offer a visually robust solution for both passive and active data transmission, with potential use in secure identifiers, satellite-based reconnaissance, encrypted command relays, and battlefield communications.

Project EduCube Canada has been developed through collaboration with STEM educators, veterans, and technologists. Our dual mission is to advance Canadian science while

equipping the next generation—including military families and underserved northern communities—with critical skills in cryptography, optics, and aerospace systems. Our outreach includes hands-on kits for schools, simulation tools for cadet programs, and integrated modules that support CSE's cyber education and CSA's outreach goals.

We are formally seeking federal funding and partnership support to:

1. Expand our pilot programs nationally through schools, military bases, and Indigenous communities.

2. Further develop the 22-bit visual code system for operational validation in CSE/CSA contexts.

3. Support veterans and active service members in STEM retraining, technical development, and educational leadership.

Our work stands as a tribute to the ingenuity and service of Canadians in uniform—those who need reliable, sovereign technologies to operate securely in space, in cyberspace, and across the globe. EduCube Canada is not only a technological innovation but also a national education and security asset.

We would welcome the opportunity to brief your office or relevant ministries in greater detail and to explore how EduCube Canada can contribute to your government's agenda for innovation, defence, and youth engagement.

Thank you for your continued leadership and for supporting Canadian initiatives that aim to protect, educate, and empower.

Sincerely,

Graeme Thomas Kilshaw
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