

RURAL OUTREACH STUDENT NEWSLETTER

25 AUGUST, 2023 | VOLUME 02



THE RURAL OUTREACH PROGRAM

The goal of the Rural Outreach Program is to support rural communities in Newfoundland in a variety of community development projects. The program is overseen by Mr. Brian Peach and his team of brilliant engineering students.

This program assists towns in rural Newfoundland in a number of different ways, including grant assistance, funding applications, 3D model creation, website design, GIS mapping, project management and more.

A PIPELINE OF PROJECTS

The Rural Outreach Program completed projects for a number of rural communities from all throughout Newfoundland.



- Town of Botwood
- Landfall Trust (Brigus)
- Town of Change Islands
- Town of Main Brook
- Town of Lamaline



COMPUTERS AND SOFTWARE

The students received brand new laptops equipped with a variety of modern software.



Software Expertise

- Sketchup Studio
- Google Sites
- QGIS
- MS Office
- MS Project
- Google Earth Pro

HIT THE ROAD RUNNING!

The team visited numerous towns and became familiar with the rich and diverse cultures of Newfoundland communities.



Many communities had unique lifestyles and traditions which allowed the students the opportunity to learn about the history of rural Newfoundland.



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NEXT GENERATION 911

The Rural Outreach Program worked with the 911 division of Newfoundland to support their initiative for a new emergency services program known as NG911.

The program seeks to provide improved emergency services using world class telecommunication networks. The Rural Outreach Program created numerous GIS maps of rural communities in Newfoundland to support their initiative.

CIVIC ADDRESSING FOR RURAL TOWNS

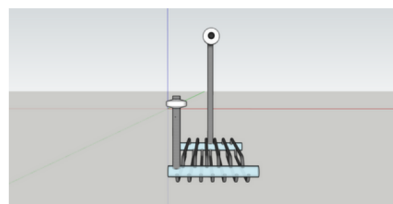
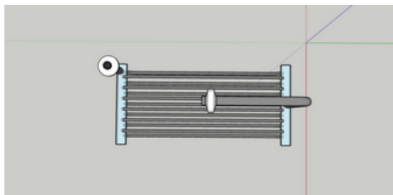
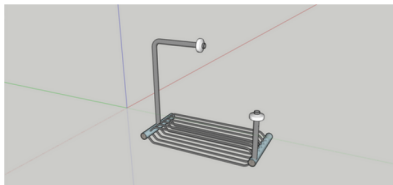
The team worked with the NG911 division and aided in multiple civic addressing projects in rural municipalities such as Lamaline and Main Brook.



The team also created detailed guides and tutorials for future 911 mapping projects at Rural Outreach.

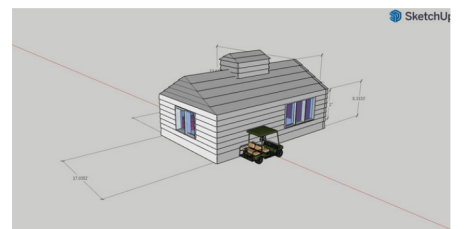
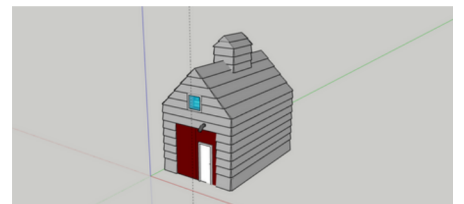
NEW AND IMPROVED GREENHOUSES

A new system of heating greenhouses known as a GAHT (Ground to Air Heat Transfer) was modelled by working alongside Dan Rubin from Food Producers Forum.



3D DEVELOPMENT OF PROPERTY FOR LANDFALL TRUST

The team created 3D models of a garage converted into an art studio as well as a landscaping shed. A storage shed was also built to accommodate a golf cart and recreational equipment.



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THE TOWN OF BOTWOOD

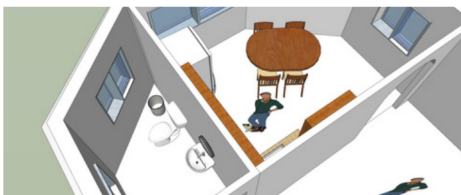


Lisa Hemeon, of Botwood, provided the Rural Outreach Program with numerous interesting projects to work on this term.

Botwood projects include the planning and design of Blueberry Hill, a healing garden, walking trails, a brand new stage, two new parking lots, a fully furnished cultural center and a stone border around the hill.

3D MODEL OF CULTURAL CENTRE

The town requested a detailed 3D design of a cultural centre for hosting events and accommodating guests.



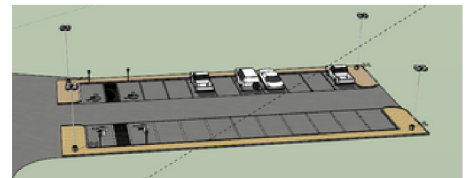
BLUEBERRY HILL REDESIGN

The team worked together to create a 3D model for the renovation of Blueberry Hill, which consisted of a healing garden, statue site and numerous walking trails.



BRAND NEW PARKING LOTS FOR TOURISTS!

The team collaborated the town to design 2 new parking lots near the Blueberry hills tourist destination with designated parking spaces for buses and small vehicles.



The parking lots are located along a road looping to the cultural centre to allow buses to drop tourists to the cultural centre and park without reversing.

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BENEFITS TO MEMORIAL UNIVERSITY ENGINEERING STUDENTS

The Rural Outreach Project offers engineering students the opportunity to learn about rural municipalities in Newfoundland, bolster expertise with a variety of software programs, devise creative solutions to address challenges faced by rural communities and experience their culture and history personally through site visits.



The Town of Botwood, a beautiful, deep water harbour nestled in the heart of the Exploits Valley



The Town of Change Islands, a paradise rich in geologic features and historical architecture.

This term, the Rural Outreach Team collaborated to execute multiple projects in Botwood and Landfall Trust, resulting in the acquisition of significant design and engineering experience by the team.

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My work term with the Rural Outreach Students Initiative was invaluable. I gained practical insights into professionalism, working under supervision, client interactions, site visits, and maximizing teamwork. My proficiency in modern software tools such as SketchUp and QGIS substantially strengthened my skill set. This experience has greatly enhanced my understanding of real-world project dynamics and has been a rewarding journey in general.

Mohd Masudul Alam Farhad,
Ocean and Naval Engineering
Student

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Rural Outreach was an incredible learning experience and has allowed me to learn multiple new skills that will benefit me in my career. Throughout the term, I've completed many 911 mapping projects for rural communities in Newfoundland using QGIS and also wrote the 'ROSU Beginner's Guide to 911 Mapping' to ensure smooth execution of future 911 mapping projects at Rural Outreach. Furthermore, I was able to meet wonderful people throughout the work term and also had the opportunity to witness their communities through site visits. I'm grateful for having such an incredible team to work alongside me and for being able to contribute to the growth and development of rural communities through the program.

**Anirban Mistry, Computer
Engineering Student**

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Working with Rural Outreach for my first work term has been a valuable experience. I got the opportunity to develop my communication and problem-solving skills even further by conveying project ideas, challenges, and solutions that resonate with clients and address their unique needs. Not to mention how grateful I am to the team behind Rural Outreach, as they aided me through the work term. They inspired me to think innovatively and professionally, improving my soft and technical skills. Overall, the experience I got was no less than irreplaceable, and the knowledge and skills I gained will be valuable in my future professional endeavors.

**Ridowan Sakib, Mechanical
Engineering Student**

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ANIRBAN MISTRY Computer Engineering Student

EMAIL
amistry@mun.ca

PHONE NUMBER
709-209-1397

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As a computer engineering student, Anirban enjoys coding and programming related problems. He is skilled in coding languages such as Python, C and HTML and is passionate about software design and website development. His enthusiasm and commitment to learning and gaining experience, along with proven academic achievements make him a valuable member of the Rural Outreach program.

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MASUDUL ALAM FARHAD Engineering One Student

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PHONE NUMBER
709-728-7847

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Masud is an enthusiastic Engineering One student with a keen interest in pursuing a major in Mechanical Engineering. Masud possesses a genuine passion for problem solving and a drive to excel in the field. While focusing on areas such as thermal sciences, design and manufacturing, Masud aims to excel in sustainable engineering solutions and a commitment to personal growth. He desires to make a positive impact and aspires to be a leading force in driving innovation.

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RIDOWAN SAKIB Mechanical Engineering Student

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709-697-7789

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Ridowan is a skilled Mechanical Engineering student proficient in AutoCAD, Microsoft Office, Python and Design Software. With a strong background in volunteering and project teams, he excels as a leader, takes initiative and possesses a creative mindset. Ridowan's hunger for challenges drives him to seek growth opportunities. As a member of the Rural Outreach program, he aims to utilize his Project Management knowledge to provide exceptional support and make a positive impact on rural communities in Newfoundland and Labrador.

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**Spring 2023 Focus: Community Development, Trails, Mapping,
Community Websites/Promotion, Grant-Assistance**