



BURTONMEDIA

Portfolio of Work

Full Stack Development

Growing the internet one project at a time.

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Summary

I have a passion for programming, a desire to provide innovative solutions to problems and to create engaging user experiences. I enjoy working with people as well as alone and am always excited to learn new tools.

I am currently looking for projects that will:

- Expand my knowledge of development and UI
- Support me working remotely
- Inspire me creatively
- Encourage smarter use of technology

If you think your project meets any-or-any-or-all these criteria and you are looking for a dedicated partner to work on your project with then please contact me, I am excited to hear from you.

Skills

- Coldfusion
- Javascript / React
- HTML / CSS / SASS
- jQuery
- PHP
- Database Development
- Microsoft SQL Server (2008-2016)
- MySQL
- API Integrations (Web Services)
- Municipal Software Development
- Business Analysis
- Project Management
- Application Support
- Debugging
- Code Review

Projects

FCSS Portal

Dates: September 2016 – January 2017

Client: City of Airdrie

Contact: Jessie Bryant (Social Planner) | 403-948-8800 x.8223 | jessie.bryant@airdrie.ca

Budget: This was a grant funded initiative in which up to \$50,000 dollars was allocated for development, this project is currently projected to finish at around \$17,000 dollars.

Project Description:

The project was to create a portal that would be used to manage funding applications and grant allocations for Family & Community Support Services. The application allowed agencies to submit applications for project funding online and then enable them to collect survey data from their clients to report back on the successes of their programs. The system will automate several currently manual processes and is expected to save many hours of work per year while also making the analysis of the data a lot more accessible.

For this project, I played several roles, including: project manager, business analyst and front and back end developer. I was responsible for all documentation related to this project from design to go-live.

Key Features Include:

- Customizable surveys for clients
- Enhanced dashboards
- Application package builder (customized views of the information collected)
- Fund allocation and voting tools

Outcome:

This project is still on-going but scheduled to go through final testing in January of 2017.

The screenshot shows a web browser window displaying the 'Airdrie FCSS Portal' application form. The browser's address bar shows the URL 'localhost:8012/CLIENTS/cityofairdrie/fcss/application_form.cfm'. The page header includes 'Airdrie FCSS Portal' on the left and 'Welcome Jesse Burton' on the right. Below the header is a navigation menu with 'Dashboard', 'Programs', and 'Agency Details' on the left, and 'Resources' and 'Logout' on the right. The main content area is titled 'Letter Of Intent' and features a 'FILL REQUIRED FIELDS' button. Below this, a message states: 'Please complete all of the following information. You can click on the heading for a section to jump directly to that section of the form'. There are two 'Save' buttons and two 'Back to Programs' buttons. The form sections are: 'Program Information', 'Program Contact Information', 'Theory of Change', 'Program Alignment', 'Program Budget Summary', and 'Review and Submit'.

Accredited Supports to the Community Website

Dates: August 2015 – March 2016

Client: Accredited Supports to the Community

Contact: Irene Cunningham | 403-556-4110 | irene@asc-mva.ab.ca

Budget: The estimated budget for the project was \$2300. The project came in around \$1800

Project Description:

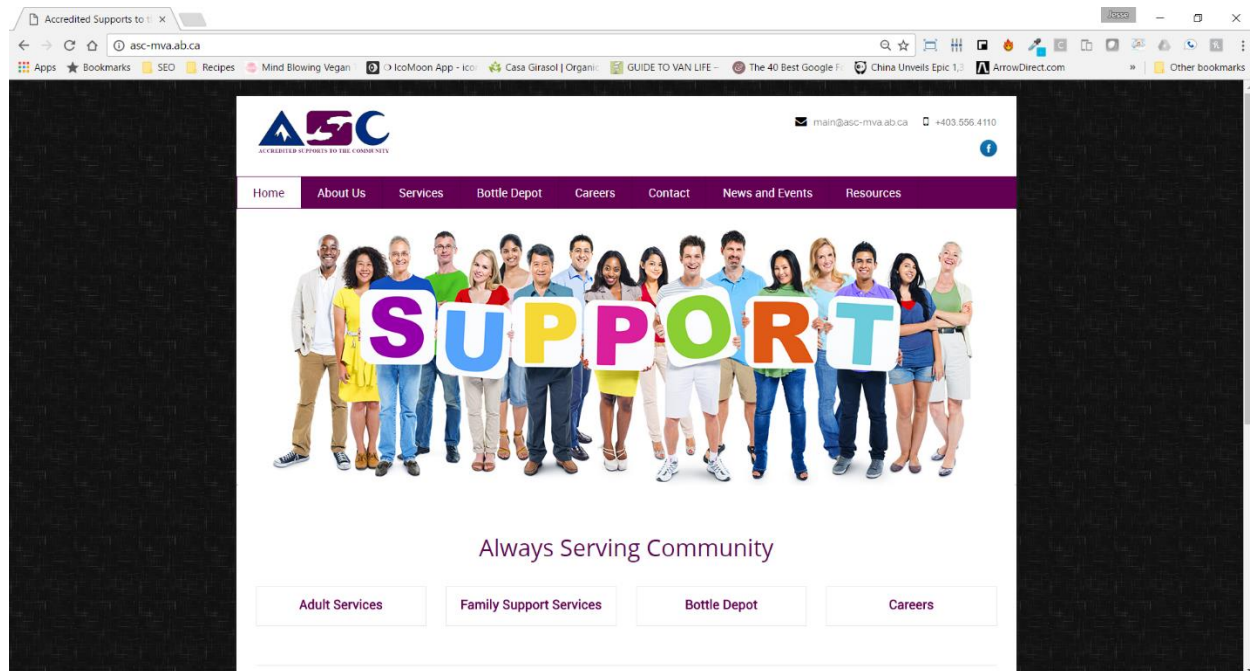
The Accredited Supports to the Community organization in Olds, Alberta required a redevelopment of their website (<http://www.asc-mva.ab.ca>). They had a limited budget and wanted to get as much functionality out of the website as they could. We decided that a WordPress website would give them the most flexibility for the cost so they chose a theme and we set up a site. We then trained select staff so that they could maintain the content themselves. The secondary function of the site was a secure document access system needed for staff to have access when visiting clients in the field.

Key Features

- Custom WordPress development
- Saved money with free plugins
- Account logins for secured area
- WordPress Training

Outcome

With some custom development and free plugins we were able to put together a robust site that worked the way they needed. We enabled admin staff to manage site content, user accounts and secure documents on their own and we saved money by taking advantage of open source software.



MyNet

Dates: Version 1 – 2007 | Version 2 – 2015

Client: City of Airdrie

Contact: Derek Antosh (Web Developer) | 403-948-8800 x.8771 | derek.antosh@airdrie.ca

Budget: This project was developed entirely in-house and so there was no specific budget set, all time applied to this project happened during regularly scheduled work hours.

Project Description:

MyNet is a complete corporate intranet that replaced an older out-dated system. This was the first complete application that I was responsible for developing at the City of Airdrie. It was an enterprise system that was accessed daily by over 200 employees. I was responsible for the planning, database design and development for the first version of this application.

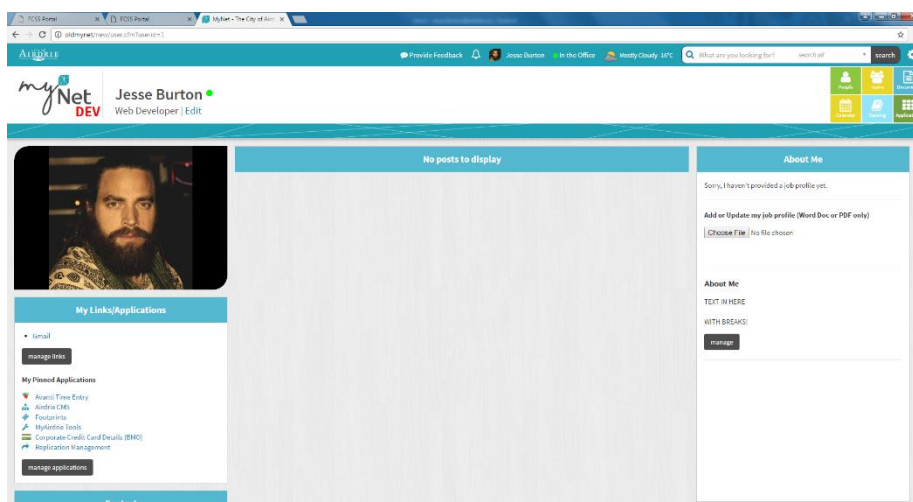
Version 2 was released last year, this time as part of a two developer team. This version has many more features than its predecessor. It has a huge focus on internal communication through a social media style design.

Key Features Include:

- Employee profiles
- Team profiles
- Group / Project collaboration pages
- Document management (using MD5 hashing to avoid duplications)
- Outlook integrated training and out of office calendars
- Quick access to all Applications
- Enhanced search features

Outcome:

MyNet is now accessed by more than 400 employees, many of which do so daily. It is a central communication portal that also helps to manage documents, content and applications that need to be accessed by employees of the City. MyNet is also now a platform for continued application development that will enable growth and change along with the needs of the organization.



Airdrie Website Redevelopment and CMS

Dates: The project began in 2011 and the site was launched in 2013, maintenance and continued improvements have been ongoing since then.

Client: City of Airdrie

Contact: Derek Antosh (Web Developer) | 403-948-8800 x.8771 | derek.antosh@airdrie.ca

Budget: This project was also developed in-house with existing staff during regular work hours.

Project Description:

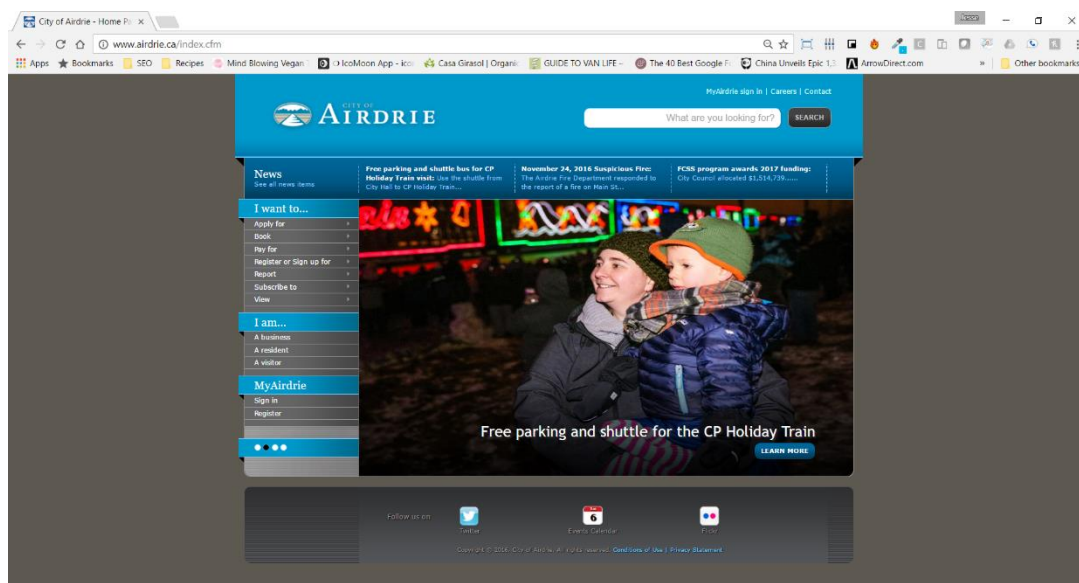
Myself and a colleague took on the challenge of creating our own custom content management system for the City of Airdrie's website (<http://www.airdrie.ca>). After doing some business analysis we proposed that building a solution was the best and most affordable way for the City to get a system that was customizable enough to meet the needs of the City. This was a significant system to take on but one that worked out quite well.

Key Features Include:

- Integrations with internal systems (Dynamics, CityView etc.)
- Template based page display
- Many content type modules (I.e. plain html, calendar displays, document handling, custom code blocks etc.)
- Dead link notifications
- Content expiration notifications
- Document management
- Robust security handling (making it easy to give content administrators the access they need)

Outcome:

The CMS is customized specifically to the needs of the City and makes it easy to integrate the website with other web API's and systems providing a seamless experience for visitors. The tool has been flexible enough to be continuously improved and to change along with the City; It is still being used today.



Census Alberta

Dates: I started working on Census in 2008 and worked on the team through several rebuilds and a yearly scheduled maintenance update window (usually September – May) of continued improvements.

Client: City of Airdrie

Contact: Corey Halford (IT Team Leader) | 403-948-8800 x.8706 | corey.halford@airdrie.ca

Budget: The census has been a revenue generating source for the City of Airdrie the past several years as a hosted solution offered to multiple municipalities. The budget for the census development cycle is planned per the revenues expected to be generated for the upcoming year and is managed by the Teams Leader.

Project Description:

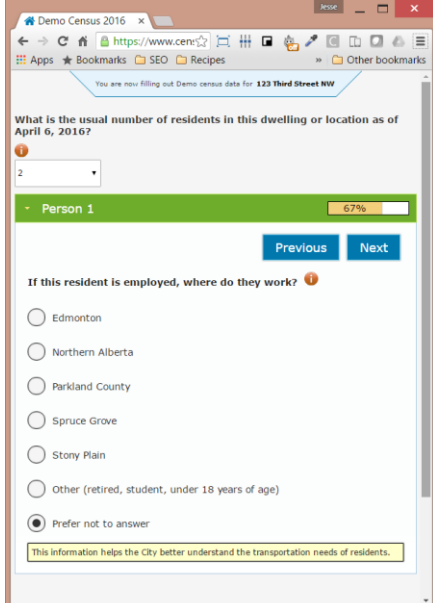
The first version of the census application (<http://www.onlinecensus.ca>) was built right before I started with the City. It was a very specific application built with hard coded questions that enabled residents of Airdrie to enter basic census information using a secure PIN system. Together, over the past 8 years the development team at Airdrie has worked each year to implement new and better features and to grow the Online Census to a fully supported web application used by more than 25 municipalities across Alberta. Some, including Airdrie, collect data every year now due to the cost savings involved in having a system to handle the technical side of running a census. This adds huge value to the municipality since grant funding is based on population. Having an accurate and up to date count can mean huge benefits especially if your population is growing. The census application has won several municipal awards.

Key Features Include:

- Fully responsive design for iPad (or any other mobile device) collection
- Browser based offline storage is utilized to ensure that data can still be collected in areas with little-to-no service
- Municipalities maintain their own questions and responses and can adjust as needed
- Question logic ensures the highest possible user experience by intelligently allowing the form to display only relevant questions
- Robust out of the box reports
- Real-time dashboards

Outcome:

The system enables the City to collect very accurate census data. The response rate from the residents of Airdrie is consistently over 50% which means that Airdrie can take advantage every year of the grant funds that come with a growing population. On top of this the City has a way of offsetting the development costs by charging a reasonable hosting fee to other municipalities. The hosting also allows collaboration and idea sharing between municipalities so that the system is constantly being improved.



The screenshot shows a web browser window titled "Demo Census 2016". The address bar shows the URL "https://www.census.ca". The page content includes a header "You are now filling out Demo census data for 123 Third Street NW". The main question is "What is the usual number of residents in this dwelling or location as of April 6, 2016?". A dropdown menu shows the number "2". Below this is a progress bar for "Person 1" at 67%. There are "Previous" and "Next" buttons. The next question is "If this resident is employed, where do they work?". The options are: Edmonton, Northern Alberta, Parkland County, Spruce Grove, Stony Plain, Other (retired, student, under 18 years of age), and Prefer not to answer. The "Prefer not to answer" option is selected. A footer note states: "This information helps the City better understand the transportation needs of residents."

Conclusion

Thank you for taking the time to review my proposal. I believe that having the right people on a project is one of the most important decisions to make. The motto that was used at the City of Airdrie was “finding the right seat on the bus”. I feel that I can provide value to your organization through my skillset, my knowledge of municipal systems and user interfaces and my desire to be a part of a stellar development team.

