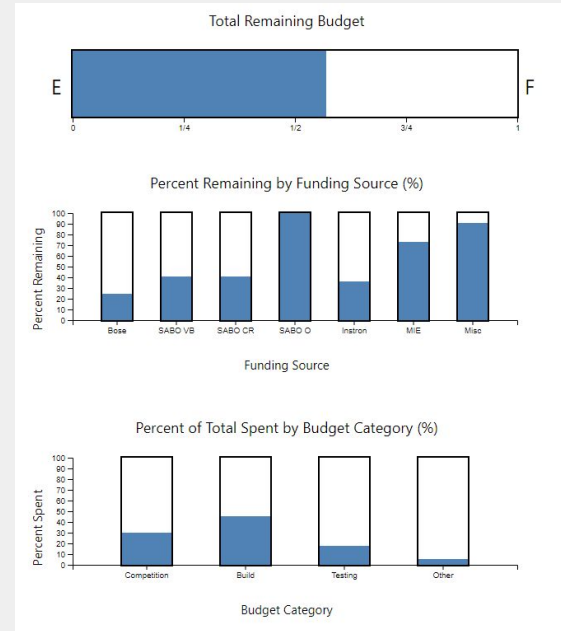


Baja Budget

Brandon Archbald, Yevhen Horban, Shaun Khundker

Partner and Overview

- NU Motorsports Club
- What problem did they have?
- What data did we get?
- How did we solve it?



Data

| 1 | Date | Supplier | Budget Category | Account | Receipt Category | Description | Shipped T | Amount | Purchaser |
|----|--------------|---------------------|-----------------------------|---------|-------------------------|-------------------------|-----------|---------------|-----------|
| 38 | 19-9/23/2019 | Ryder | Competition/Mayhem Truck | MIE | Midnight Mayhem Truck R | Truck Rental | N/A | \$ 1,366.19 | P-Card |
| 39 | 9/27/2019 | Pyrotech | Build/COTS/Bose | COE | 2020 Car | Gas Tank | Fill | \$ 249.85 | P-Card |
| 40 | 9/30/2019 | McMaster-Carr | Testing/Other | COE | Outreach | Bose Day balance bar | COE | \$ 36.36 | P-Card |
| 41 | 10/4/2019 | Domino's | Testing/Other | COE | Outreach | Bose Day food | N/A | \$ 76.82 | P-Card |
| 42 | 10/8/2019 | N/A | Testing/Other | COE | Outreach | Bose Day fuel | N/A | \$ 20.07 | Zach |
| 43 | 10/4/2019 | Framed in Time | Other/Misc | Misc | Outreach | Bose Day gift | N/A | \$ 22.83 | Pepe |
| 44 | 10/8/2019 | McMaster-Carr | Testing/Other | COE | Testing Supplies | Material for tie rods | Gina | \$ 104.01 | P-Card |
| 45 | 10/9/2019 | Advance Auto | Build/COTS/Bose | COE | General Supplies | Bead Sealant | N/A | \$ 13.80 | Zach |
| 46 | 10/9/2019 | O'Reilly | Testing/Other | COE | Testing Supplies | Trailer light adapter | N/A | \$ 13.80 | Zach |
| 47 | 10/12/2019 | Mobil | Testing/Fall | COE | Testing 10/12/2019 | Gas | N/A | \$ 58.43 | Zach |
| 48 | 10/12/2019 | U-Haul | Testing/Fall | COE | Testing 10/12/2019 | Uhaul | N/A | \$ 47.63 | Zach |
| 49 | 10/15/2019 | SAE | Competition/Illinois Regist | SABO | Comp Registration | Illinois Registration | N/A | \$ 1,350.00 | Fill |
| 50 | 10/15/2019 | GoDaddy | Other/Website | COE | Website | 6 Month Renewal | N/A | \$ 65.94 | P-Card |
| 51 | 10/23/2019 | Amazon | Build/Sparky | COE | 2020 Car | Heat shrink | Harrison | \$ 16.76 | P-Card |
| 52 | 10/23/2019 | BMRs | Build/Sparky | COE | 2020 Car | BMRs | Gina | \$ 85.83 | P-Card |
| 53 | 10/27/2019 | McMaster-Carr | Build/Hardware and Tools | COE | General Supplies | Tapes and brake clean | Gina | \$ 78.77 | P-Card |
| 54 | 10/27/2019 | McMaster-Carr | Testing/Other | COE | Testing Supplies | CVT weights | Gina | \$ 67.73 | P-Card |
| 55 | 10/29/2019 | Brewster Screen Pri | Other/Misc | Misc | Apparel | Carhartt order | N/A | \$ 1,333.00 | P-Card |
| 56 | 10/31/2019 | OPD | Build/Engine | COE | 2020 Car | Engine | Gina | \$ 580.44 | P-Card |
| 57 | 11/1/2019 | Lathelnserts | Other/Equipment | COE | Shop tooling | Face Mill for Bridgepor | Gina | \$ 352.99 | P-Card |
| 58 | 11/2/2019 | Emily Kerr | Other/Misc | Misc | Apparel | Carhartt refund | N/A | \$ (1,333.00) | Check |
| 59 | 11/6/2019 | Online Metals | Build/Hardware and Tools | COE | 2020 Car | Frame Jig Stock | BOSE | \$ 208.46 | P-Card |
| 60 | 11/7/2019 | OPD | Build/Engine | COE | 2020 Car | Engine Refund | N/A | \$ (271.30) | P-Card |
| 61 | 11/9/2019 | Mobil | Testing/Fall | COE | Testing 10/9/2019 | Gas | N/A | \$ 61.16 | Zach |
| 62 | 11/10/2019 | Home Depot | Build/Hardware and Tools | COE | 2020 Car | Jig MDF | N/A | \$ 25.97 | Piper |
| 63 | 11/15/2019 | VR3 | Build/Frame | SABO | 2020 Car | Main tube set | Gina | \$ 2,420.00 | SABO |
| 64 | 11/16/2019 | McMaster-Carr | Build/Hardware and Tools | COE | 2020 Frame Jig | Hardware and zipties | Gina | \$ 84.19 | P-Card |
| 65 | 11/16/2019 | U-Haul | Testing/Fall | COE | Outreach | Trailer rental | N/A | \$ 42.95 | Zach |
| 66 | 11/16/2019 | Mobil | Testing/Fall | COE | Outreach | Fuel | N/A | \$ 58.73 | Zach |
| 67 | 11/19/2019 | Summit | Build/COTS/Bose | COE | 2020 Car | THE brake pads | Gina | \$ 62.82 | P-Card |

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| 15 | Expenses | Cost | Actual | Remaining | Source of Funds | Comment |
|----|------------------------------|---------------|---------------|-------------|-------------------|--|
| 17 | Competition | | | | | |
| 18 | Mayhem Registration | \$ - | \$ - | \$ - | Misc | \$40 per member |
| 19 | Epreuve du Nord Registration | \$ (269.17) | \$ 269.17 | \$ 0.00 | Bose | Unknown |
| 20 | Illinois Registration | \$ (1,350.00) | \$ 1,350.00 | \$ - | SABO Registration | Increased by \$50 from previous years |
| 21 | Kentucky Registration | \$ (925.32) | \$ - | \$ 925.32 | SABO Registration | |
| 22 | Kentucky Registration | \$ (424.68) | \$ - | \$ 424.68 | Bose | |
| 23 | | | | | | |
| 24 | Mayhem Truck | \$ (1,366.19) | \$ 1,366.19 | \$ - | MIE | Calculated with 2020 Competition Costs Calculator |
| 25 | EdN Truck | \$ - | \$ - | \$ - | MIE | PAID FOR BY PANICKED UNIVERSITY |
| 26 | Kentucky Truck | \$ (1,275.00) | \$ - | \$ 1,275.00 | MIE | |
| 27 | Illinois Truck | \$ (1,350.00) | \$ - | \$ 1,350.00 | MIE | |
| 28 | | | | | | |
| 29 | Mayhem Truck Fuel | \$ (676.92) | \$ 676.92 | \$ - | Bose | Calculated with 2020 Competition Costs Calculator |
| 30 | EdN Truck Fuel | \$ - | \$ - | \$ - | Bose | PAID FOR BY PANICKED UNIVERSITY |
| 31 | Kentucky Truck Fuel | \$ (775.00) | \$ - | \$ 775.00 | Bose | |
| 32 | Illinois Truck Fuel | \$ (850.00) | \$ - | \$ 850.00 | Instron | |
| 33 | | | | | | |
| 34 | Mayhem Personnel Gas | \$ (765.12) | \$ 765.12 | \$ 0.00 | Bose | Calculated with 2020 Competition Costs Calculator |
| 35 | EdN Personnel Gas | \$ (297.22) | \$ 297.22 | \$ 0.00 | Bose | |
| 36 | Kentucky Personnel Gas | \$ (800.00) | \$ - | \$ 800.00 | Bose | |
| 37 | Illinois Personnel Gas | \$ (775.00) | \$ - | \$ 775.00 | Instron | |
| 38 | | | | | | |
| 39 | Mayhem Lodging | \$ (532.80) | \$ 532.80 | \$ - | Bose | |
| 40 | EdN Hotel | \$ (1,644.93) | \$ 1,644.93 | \$ - | Misc | Rough Estimates as of 7/9/2019 |
| 41 | Kentucky Hotel | \$ (1,600.00) | \$ - | \$ 1,600.00 | Misc | Assume 5 nights, 4 rooms, \$80 room |
| 42 | Illinois Hotel | \$ (1,600.00) | \$ - | \$ 1,600.00 | Misc | |
| 43 | | | | | | |
| 44 | Total | | | | | |
| 45 | Build | | | | | |
| 46 | Frame | \$ (2,700.50) | \$ 2,420.00 | \$ 280.50 | SABO Build | |
| 47 | COTS Parts | \$ (2,500.00) | \$ 1,032.70 | \$ 1,467.30 | SABO Build | |
| 48 | COTS Parts | \$ (600.00) | \$ 498.30 | \$ 141.70 | Instron | |
| 49 | Outsourced Parts | \$ (2,275.32) | \$ - | \$ 2,275.32 | SABO Outsourcing | |
| 50 | Hardware and Consumables | \$ (800.00) | \$ 546.19 | \$ 253.81 | Bose | |
| 51 | Sparky | \$ (500.00) | \$ 128.22 | \$ 371.78 | Instron | |
| 52 | Shock | \$ (5,000.00) | \$ 2,634.84 | \$ 2,365.16 | SABO Build | |
| 53 | Shocks | \$ (2,972.61) | \$ 2,972.61 | \$ 0.00 | Bose | Assuming 2 kits (each containing 2 shocks) of FLOAT 3 EVOL |
| 54 | Engine | \$ (309.14) | \$ 309.14 | \$ (0.00) | Bose | |
| 55 | | | | | | |
| 56 | Total | | | | | |
| 57 | Testing | | | | | |
| 58 | Testing Fall | \$ (1,607.48) | \$ 1,607.48 | \$ (0.00) | Instron | Assuming 5 trips at \$175 per (Includes Bose, Instron, Alumni) |
| 59 | Testing Spring | \$ (625.00) | \$ 375.89 | \$ 249.11 | Instron | |
| 60 | Other | \$ (500.00) | \$ 2,227.24 | \$ 272.76 | Instron | Including repairs to 2019 to use in testing |
| 61 | | | | | | |
| 62 | Total | | | | | |
| 63 | Other | | | | | |
| 64 | Tools and Equipment | \$ (1,247.17) | \$ 1,177.43 | \$ 69.74 | Bose | PLEASE ALSO INCLUDE ANY SAFETY EQUIPMENT HERE |
| 65 | Website | \$ (100.00) | \$ 65.94 | \$ 34.06 | Bose | |
| 66 | Miscellaneous | \$ (500.00) | \$ (1,080.41) | \$ 1,580.41 | Misc | |
| 67 | | | | | | |
| 68 | Total | | | | | |
| 69 | Grand Total | \$41,518.57 | | | | |

The Problem

- Account and expense logs recorded in Google Sheets
- Needed better way to show data to members and sponsors

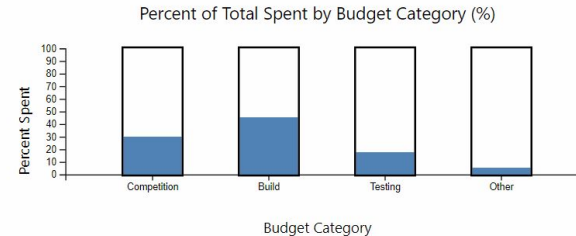
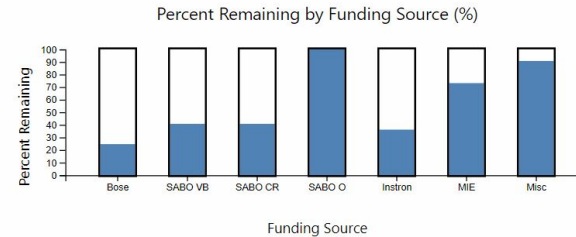
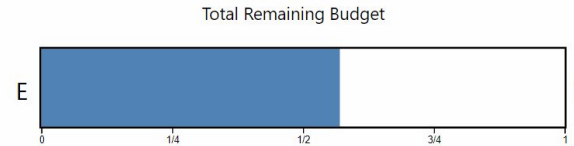
| Task ID# | Domain Task | Analytics Task (low-level, "query") | Search Task (mid-level) | Analyze Task (high-level) |
|----------|--|-------------------------------------|-------------------------|---------------------------|
| 1 | Determine how much money is left in the budget for the year. | Summarize | Lookup | Present |
| 2 | Examine which funding sources are being used. | Compare | Lookup | Present |
| 3 | Examine which categories each funding source contributes to. | Summarize | Browse | Discover |

Demo

Design Choices

- Motorsports theme
- Overview -> details
- Color
- Graph choice

Visualization



Contributions

- NU Motorsports Club
- Visualizations /Project
- Better tools for team and sponsor presentations
- Questions?