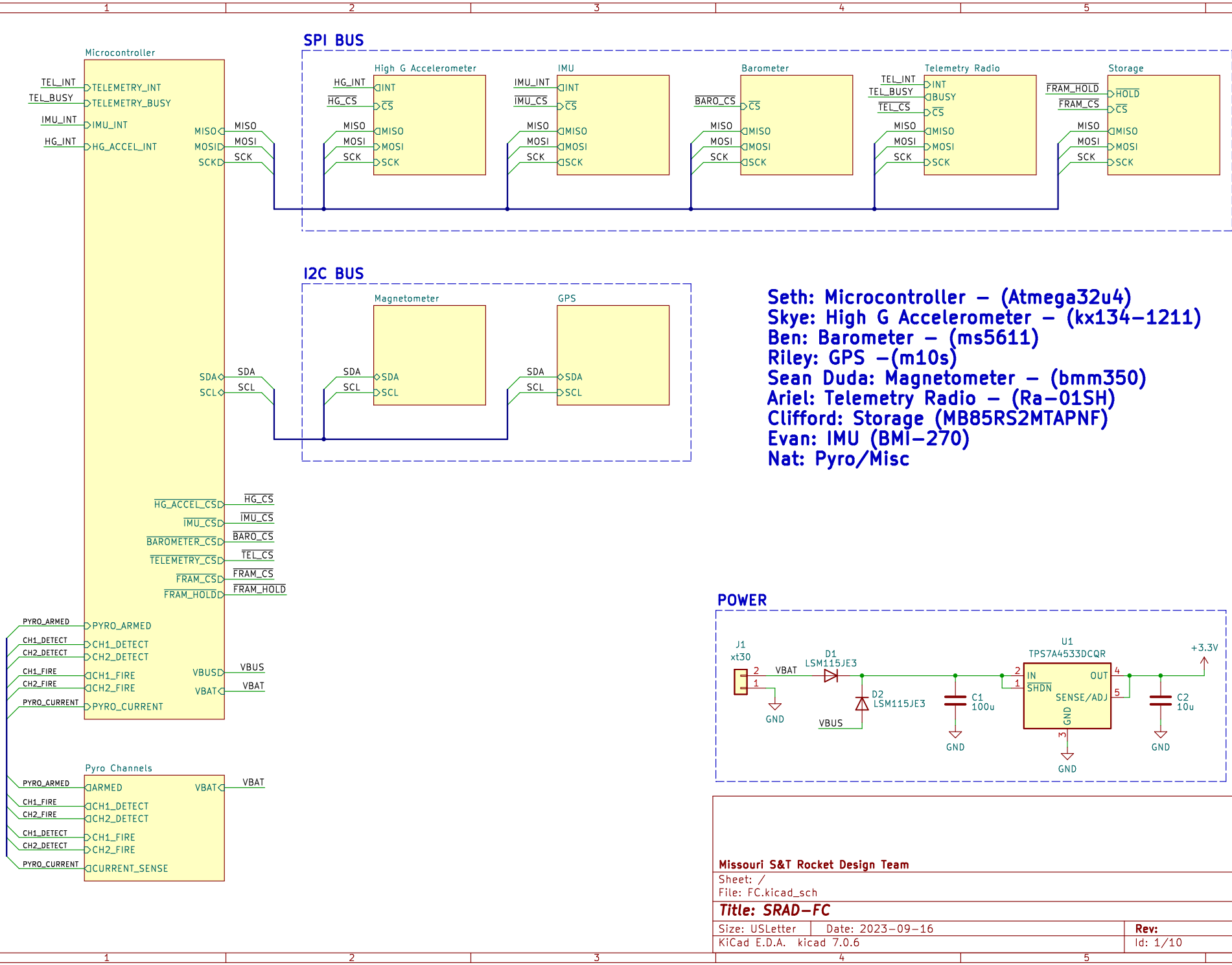


Missouri S&T Rocket Design Team

Sheet: /

File: FC.kicad_sch

Title: SRAD-FC

Size: USLetter	Date: 2023-09-16	**Rev:**
KiCad E.D.A. kicad 7.0.6		Id: 1/10

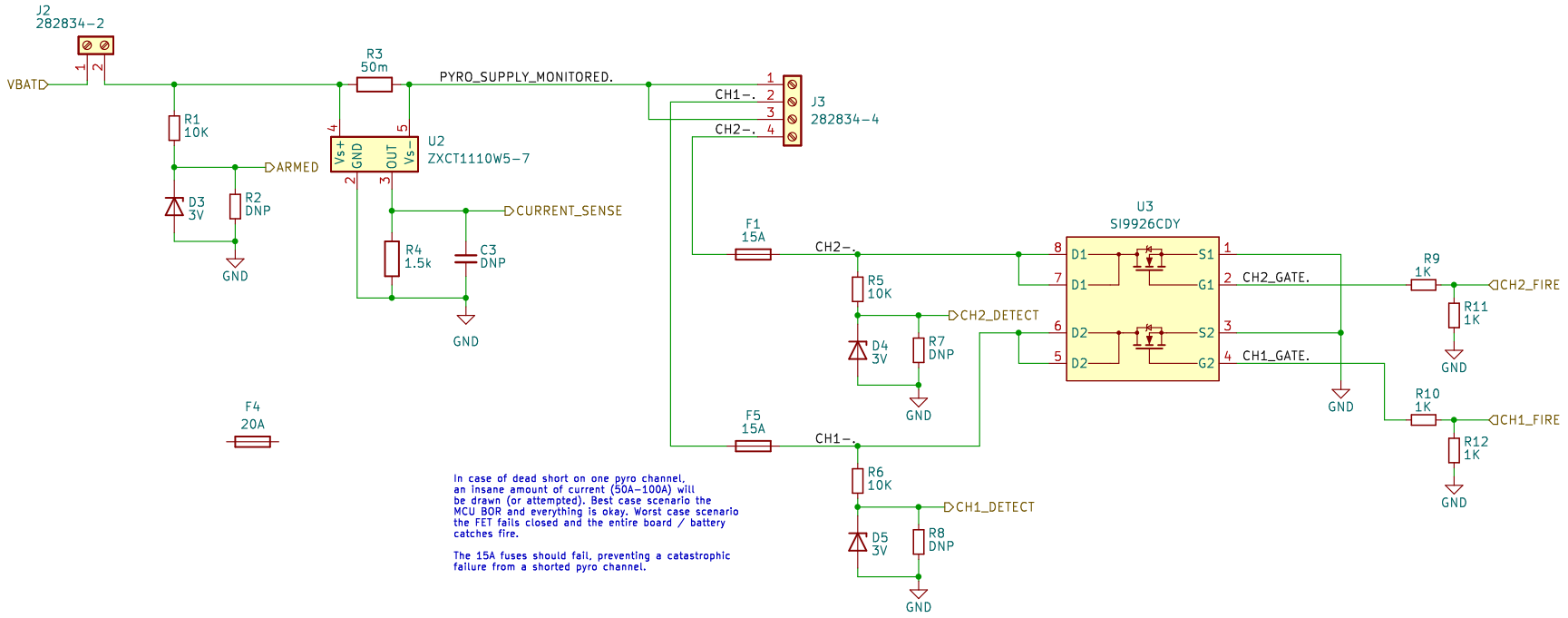
EMATCH:

Example Ematch: https://electricmatch.com/pyrotechnics/see/6/5/mjg-firewire-initiator--standard
Resistance: 1 +/- 0.2Ω
Recommended Current: 1A
Minimum Recommended Current: 0.75A
Maximum Test Current: 0.04A

FET:

Chosen MOSFET: https://www.digikey.com/en/products/detail/vishay-siliconix/SI9926CDY-T1-GE3/1978863
Max Continous FET Current: 8A
Max Pulse FET Current: 30A
3.3V_{GS} → $R_{DS(ON)}$ = 17mΩ

PYRO CHANNELS AND SENSE

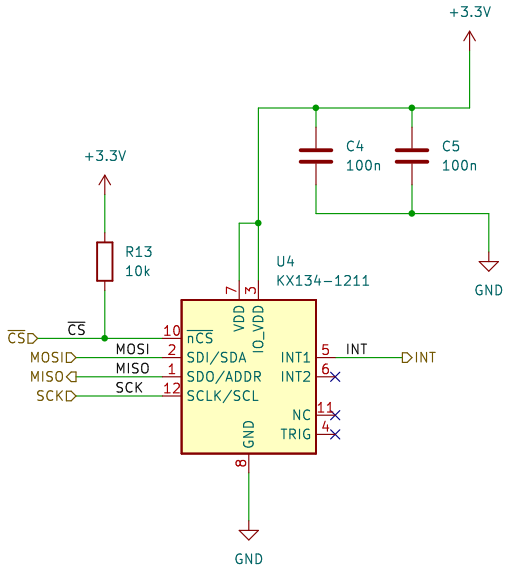


Nat Curtis
Seth Sievers
Missouri S&T Rocket Design Team

Sheet: /Pyro Channels/
File: pyro_channel.kicad_sch

Title: Pyro Channels

Size: USLetter	Date: 2023-04-27	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.6		Id: 2/10



Max Current: 0.145mA

Skye Watson

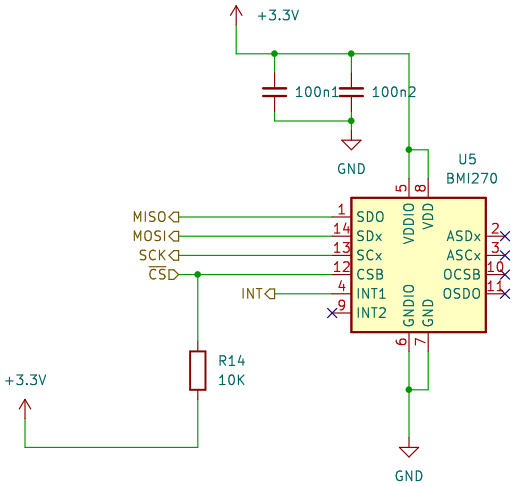
Missouri S&T Rocket Design Team

Sheet: /High G Accelerometer/

File: kx134-1211.kicad_sch

Title: High G Accelerometer (KX134-1211)

Size: USLetter	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.6		Id: 3/10

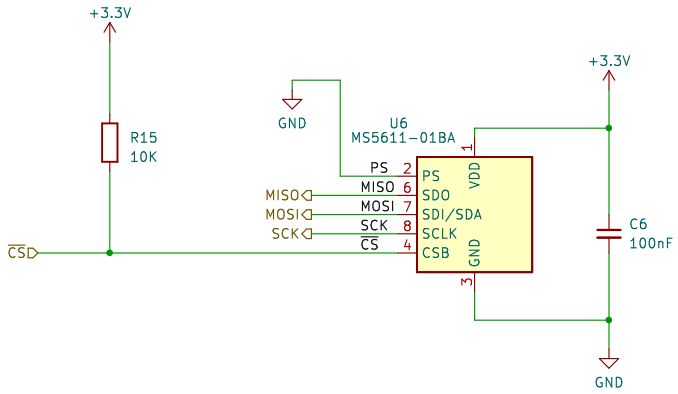


Max Current: 0.97mA

Evan Richard
Missouri S&T Rocket Design Team
Sheet: /IMU/
File: bmi-270.kicad_sch

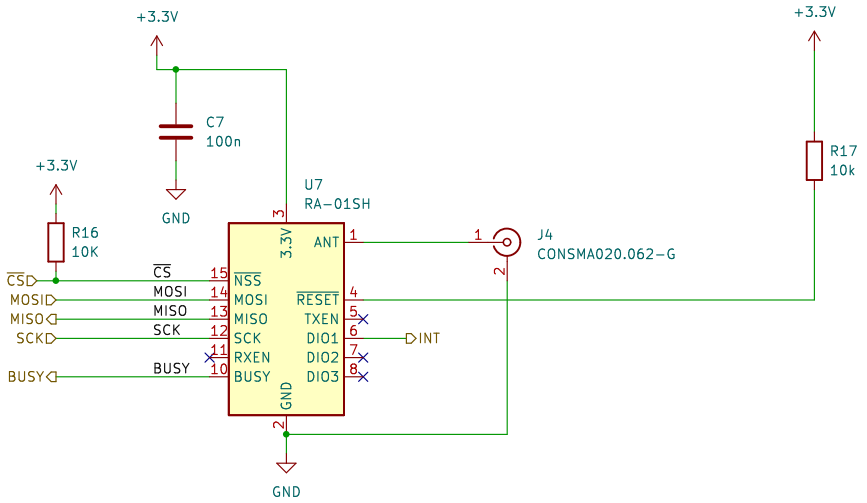
Title: IMU (BMI-270)

Size: USLetter	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.6		Id: 4/10



Max Current: 1.4 mA

Ben Martin	
Missouri S&T Rocket Design Team	
Sheet: /Barometer/	
File: ms5611.kicad_sch	
Title: Barometer (MS5611)	
Size: USLetter | Date:	**Rev:**
KiCad E.D.A. kicad 7.0.6	Id: 5/10



Maximum Working Current is 140mA

Ariel Pilger

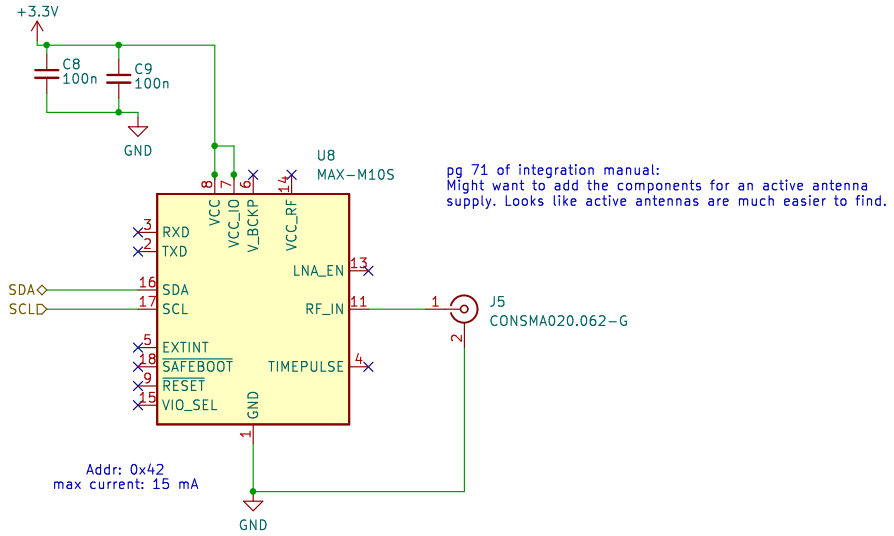
Missouri S&T Rocket Design Team

Sheet: /Telemetry Radio/

File: ra-01sh.kicad_sch

Title: Telemetry Radio (RA-01SH)

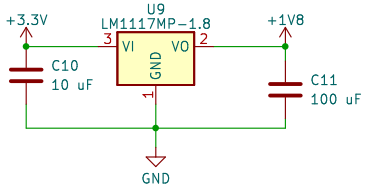
Size: USLetter	Date: 2023-09-17	**Rev:**
KiCad E.D.A. kicad 7.0.6		Id: 6/10



Riley Kyle	
Missouri S&T Rocket Design Team	
Sheet: /GPS/	
File: m10s.kicad_sch	
Title: GPS (M10S)	
Size: USLetter | Date:	**Rev:**
KiCad E.D.A. kicad 7.0.6	Id: 7/10

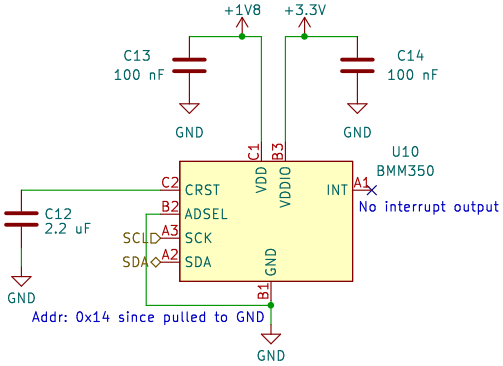
LDO Regulator

LDO Datasheet Link



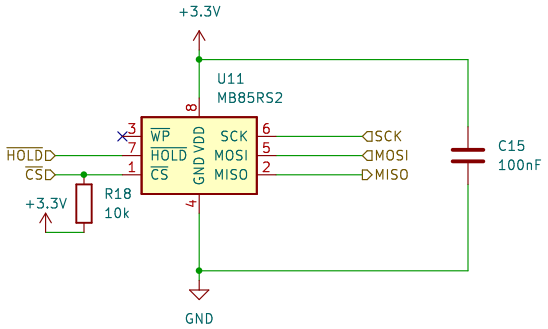
Magnometer

Magnometer Link



Max Current: 3.5mA

Sean Duda	
Missouri S&T Rocket Design Team	
Sheet: /Magnetometer/	
File: bmm-350.kicad_sch	
Title: Magnetometer (BMM350)	
Size: USLetter | Date:	**Rev:**
KiCad E.D.A. kicad 7.0.6	Id: 8/10



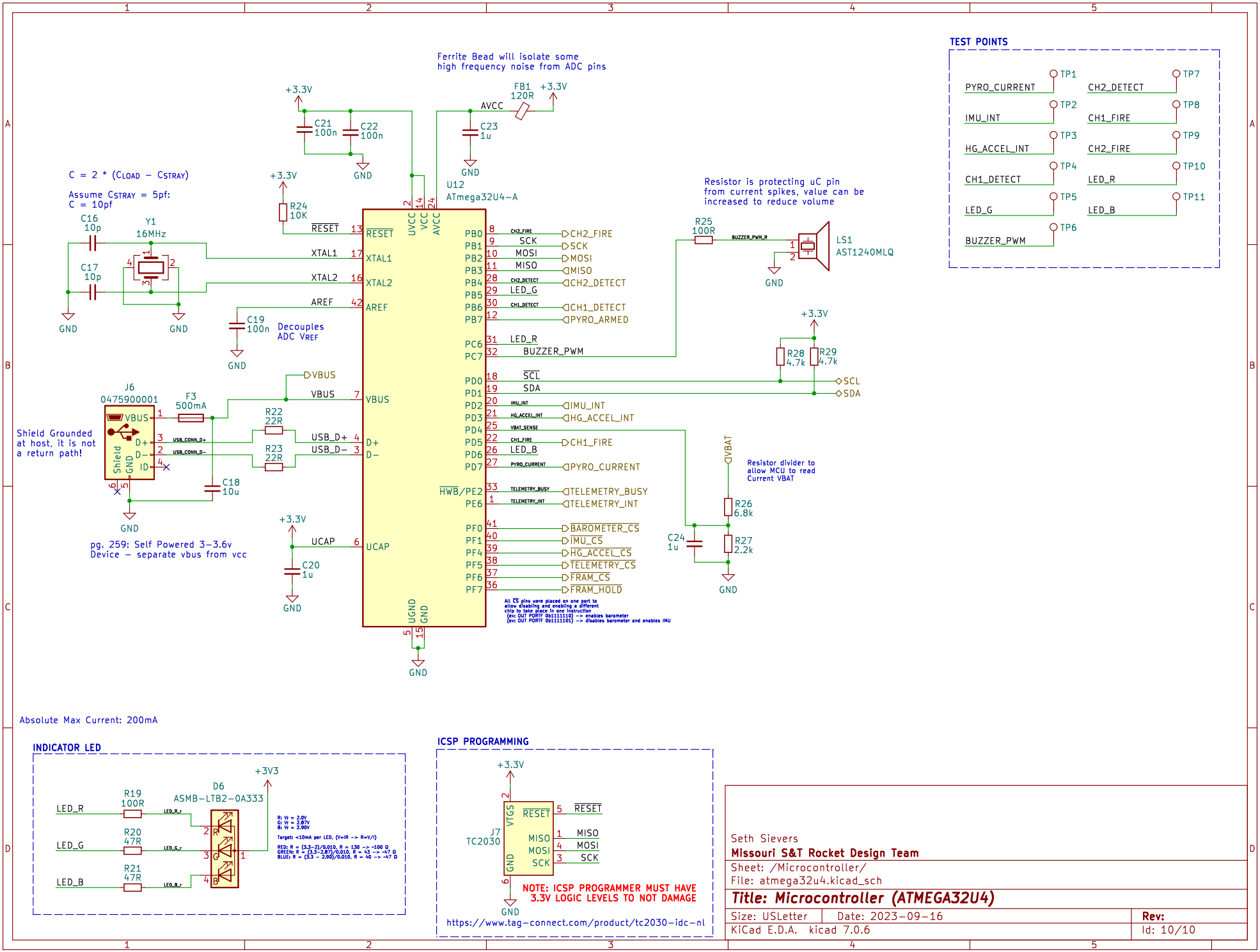
Max Current: 2mA

Cliffford Matteson
Missouri S&T Rocket Design Team

Sheet: /Storage/
File: mb85rs2mtapnf.kicad_sch

Title: Storage (MB85RS2)

Size: USLetter	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.6		Id: 9/10



Seth Sievers
Missouri S&T Rocket Design Team
Sheet: /Microcontroller/
File: atmega32u4.kicad_sch

Title: Microcontroller (ATMEGA32U4)

Size: USLetter	Date: 2023-09-16	Rev:
KiCad E.D.A. kicad 7.0.6		Id: 10/10