

701 Brooks Ave South, PO Box 677 Thief River Falls, MN 56701-0677 USA

## www.digikey.com Global Customer Support 1-800-344-4539 or 218-681-6674

PO Acknowledgement 91910467 USD \$

TX A&M UNIVERSITY
ACCOUNTS PAYABLE/ELECTRICAL & COMPUTER
3128 TAMU
College Sta TX 77843
USA

LANITA JACKSON TX A&M UNIVERSITY WISENBAKER ENGINEERING BLDG RM 076 COLLEGE STATION TX 77843-3128 USA AIDAN RADER (CAPSTONE)
TEXAS A&M UNIVERSITY ECEN
3128
188 BIZZELL ST.
WEB ROOM 076
COLLEGE STATION TX 77843-3128
USA

DIGI-KEY ELECTRONICS
701 BROOKS AVE. SOUTH
P.O. BOX 677
THIEF RIVER FALLS MN 56701-0677

Purchase Order: 02-460004-00000

Account: 2915601
Customer: 12598339
Payment Terms: Net 30 Days
Shipping Method: FedEx Ground
Order Source: INTERNET
Order Date: 03-APR-2025

Estimated Release Date: 03-APR-2025/AUT0

| Line<br>Item | Ordered | Available<br>Qty | Backordered<br>Qty | Item Number/ Description  | Unit Price<br>USD \$                           | Amount<br>USD \$ |      |
|--------------|---------|------------------|--------------------|---|--|------------------|------|
| 1            | 2       | 2                |                    | PART: SFH11-PBPC-D10-ST-BK  MFG: SULLINS CONNECTOR SOLUTIONS / SFH11-PBPC-D10-ST-BK  COO: TAIWAN, PROVINCE OF CHINA  COO: TAIWAN, PROVINCE OF CHINA  COO: COMP REACH UNAFFECTED 10-JUN-2022 | NN HDR 20POS 0.1 GOLD PCB  HTSUS: 8536.69.4040 | 1.03000          | 2.06 |

| Sales Amount             | 2.06   |
|--------------------------|--------|
| Shipping charges applied | 6.99   |
| Total                    | 9.05   |
|                          | USD \$ |
|                          |        |

General - WEB ORDER ID: 356052471



## Re: ECEN-404-903 VFD Motor Controller #70

**Lusher II, John David** <john.lusher@tamu.edu>
To: "Rader, Aidan D" <aidandrader@tamu.edu>

Wed, Apr 2, 2025 at 10:02 PM

Approved.

On Apr 2, 2025, at 9:06 PM, Aidan Rader <aidandrader@tamu.edu> wrote:

Howdy Professor,

I have included below the information to order parts. Please let me know if you need anything else to approve the order.

--

Aidan Rader '25 Texas A&M University Electrical Engineering UIN: 631002772 <Budget (7).pdf>

| Part Number           | Name                  | Order# | Item # | Notes | Quantity | \$/unit      | Actual (\$) | Receipt | Vendor Link | Delivery Date | Subsystem        | Block Diagram            |
|-----------------------|-----------------------|--------|--------|-------|----------|--------------|-------------|---------|-------------|---------------|------------------|--------------------------|
| After Current Order   |                       |        |        |       |          |              | 1164.08     |         |             |               |                  |                          |
| Before Current Order  |                       |        |        |       |          |              | 1085.84     |         |             |               |                  |                          |
| Current Order         |                       |        |        |       |          |              | 78.25       |         |             |               |                  |                          |
| 08051C104K4T2A        | 0.1uF cap             | 7      |        |       | 20       | .123 for 10  |             |         | mouser      |               | Mackenzie        |                          |
| CRCW080510K0FKEA      | 10k resistor          | 7      |        |       | 20       |              |             |         | mouser      |               | Mackenzie        |                          |
| LM358AN/NOPB          | op amp                | 7      |        |       | 10       |              |             |         | mouser      |               | Mackenzie        |                          |
| SI8635BC-B-IS1        | digital to analog     | 7      |        |       | 2        |              |             |         | mouser      |               | Mackenzie        |                          |
| HCNR201-500E          | Photovoltaic Isolator | 7      |        |       | 3        |              |             |         | mouser      |               | Mackenzie        |                          |
| 662108145021          | 8 pin connector       | 7      |        |       | 3        |              |             |         | mouser      |               | Mackenzie        |                          |
| 66201221022           | 12 pin connector      | 7      |        |       | 3        | 0.892        |             |         | mouser      |               | Mackenzie        |                          |
| KSP2907ACTA           | transistor - pnp      | 7      |        |       | 10       |              |             |         | mouser      |               | Mackenzie        |                          |
| CRCW080580K6FKEA      | 80.6k resistor        | 7      |        |       | 20       |              |             |         | mouser      |               | Mackenzie        |                          |
| RC0805FR-071KL        | 1k resistor           | 7      |        |       | 10       |              |             |         | mouser      |               | Mackenzie        |                          |
| C0805C101K5GACTU      | 100pF cap             | 7      |        |       | 20       |              |             |         | mouser      |               | Mackenzie        |                          |
| 08051C104K4T2A        | 0.1uF cap             | 7      |        |       | 30       |              |             |         | mouser      |               | Mackenzie        |                          |
| 293D106X9010B2TE3     | 10uF cap              | 7      |        |       |          | 0.206 for 10 |             |         | mouser      |               | Mackenzie        |                          |
| CRCW080510K0FKEA      | 10k resistor          | 7      |        |       | 20       |              |             |         | mouser      |               | Mackenzie        |                          |
| CRCW080549R9FKEA      | 49.9 resistor         | 7      |        |       | 20       |              |             |         | mouser      |               | Mackenzie        |                          |
| CRCW1206300RFKEA      | 300 resistor          | 7      |        |       | 10       |              |             |         | mouser      |               | Mackenzie        |                          |
| 1N4148W-7-F           | diodes                | 7      |        |       | 20       |              |             |         | mouser      |               | Mackenzie, Aidan | optoelectronics, dc link |
| GUO40-12NO1           | rectifier             | 7      |        |       | 1        |              |             |         | mouser      |               | Aidan            | rectifier                |
| 2N7002-TP             | mosfet                | 7      |        |       | 10       |              |             |         | mouser      |               | Aidan            | relay                    |
| SFH11-PBPC-D10-ST-BK  | 20 pin connector      | 7      |        |       | 2        |              |             |         | digikey     |               | Drew             | relay                    |
| 311111 BI C BIO 31 BK | 20 pin connector      | · ·    |        |       |          | 1.03         | 2.00        |         | digitey     |               | Diew             |                          |
|                       |                       |        |        |       |          |              |             |         |             |               |                  |                          |
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|                       |                       |        |        |       |          |              |             |         |             |               |                  |                          |

From: <u>Aidan Rader</u>

To: <u>ECEN Business Office</u>

Subject: ECEN-404-903 VFD Motor Controller #70

Date: Thursday, April 3, 2025 12:19:00 AM

Attachments: budget order7.pdf

professor approval order7.pdf

## Howdy,

I have included below the information to order parts. Please let me know if you need anything else to complete the order.

Mouser Cart: <a href="https://www.mouser.com/ProjectManager/ProjectDetail.aspx?">https://www.mouser.com/ProjectManager/ProjectDetail.aspx?</a> <a href="https://www.mouser.com/ProjectManager/ProjectDetail.aspx?">https://www.mouser.com/ProjectManager/ProjectDetail.aspx?</a> <a href="https://www.mouser.com/ProjectManager/ProjectDetail.aspx?">https://www.mouser.com/ProjectManager/ProjectDetail.aspx?</a> <a href="https://www.mouser.com/ProjectManager/ProjectDetail.aspx?">https://www.mouser.com/ProjectManager/ProjectDetail.aspx?</a>

Digikey Cart: <a href="https://www.digikey.com/short/tqv77q2r">https://www.digikey.com/short/tqv77q2r</a>

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## Aidan Rader '25

Texas A&M University Electrical Engineering

UIN: 631002772