
Michael Greer

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2730 Jacquelyn Dr, Fitchburg, WI 53711

February 26th, 2020

Hiring Manager
Understory
4916 E Broadway Suite 200, Madison, WI 53716

Dear Hiring Manager,

I am inquiring about the Jr. Embedded Engineer position that was posted on your website. I have two bachelor's degrees in Computer Engineering and Computer Science from the University of Wisconsin - Madison and have excellent academic record and relevant experience in both industry and academia. The following experiences demonstrate my ability to perform your essential duties for this position.

I have worked with C language for 2 years writing code on Unix/Linux systems throughout my time in academia. I had worked exclusively from the Linux command line environment during this time and I have familiarity using Git for version control while working on group projects. I also had developed solid software fundamentals, in fact, I achieved the 4th fastest program (written in C) in a classroom of approximately 200 students during our concurrent programming unit of our Unix/Linux operating systems course.

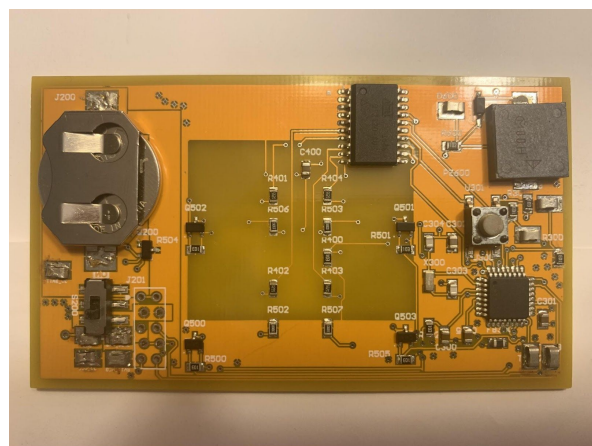
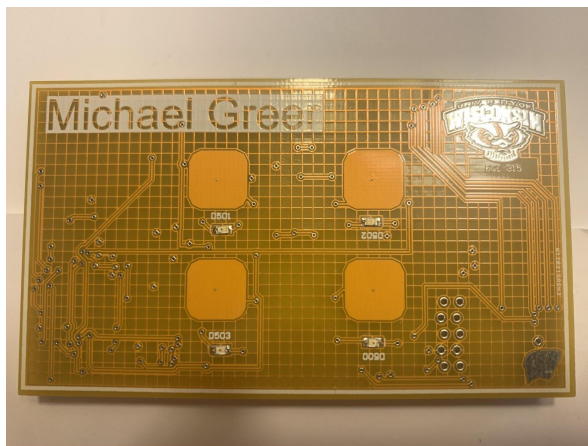
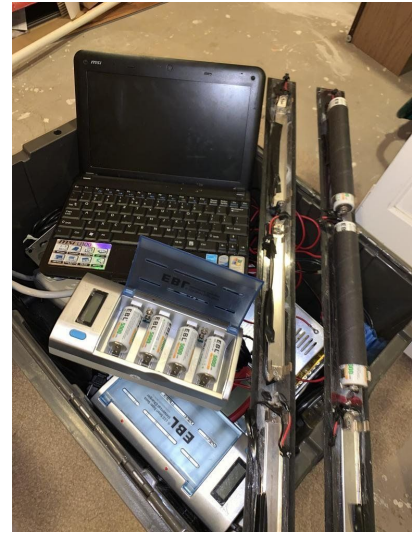
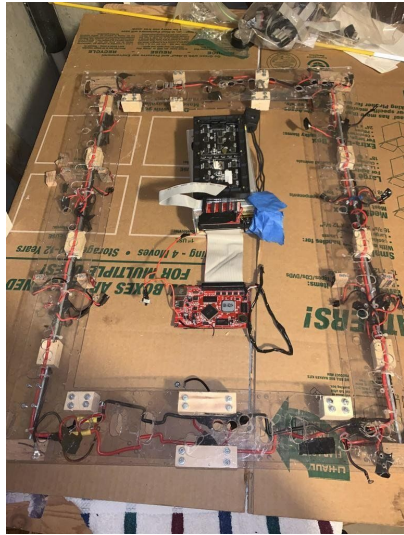
I have adequate knowledge in analog and digital circuitry, developing electronics hardware, and knowledge with embedded microcontroller programming through my microcontrollers lab at UW. We designed, placed, and routed analog and digital components onto a PCB board using Altium Designer. We controlled and sensed our components on our PCB board through the use and programming of an ARM Cortex-M microcontroller. We finalized and tested our design using multimeters, oscilloscopes, and waveform generators. Photos are attached on the next page for your review.

I would also have good communication and interpersonal skills through my role as a Project Manager at Electric Forest Music Festival over the course of 2 years and 3 festivals. I learned to communicate project status and risks to customers in my role. I defined customer specifications, created proposals, created bills of materials, designed, manufactured, tested, and delivered products at a deadline. An example product that I delivered was a mobile, battery operated, 3ft by 2ft picture frame with 16,000 individually addressable RGB LEDs along the perimeter that animated text, images, and video for festival goers to stick their heads through for photos. Photos are attached on the next page for your review.

Through my various experiences and education, I feel that I can make significant contributions to Understory. My resume and my transcript are attached for your review. Please call me to arrange an interview at your earliest convenience. Otherwise, I will follow up this letter with a phone call within two weeks in the hope of arranging an interview. Thank you for your consideration.

Sincerely,

Michael Greer



- First six pictures depict the projects delivered for Electric Forest Music Festival. A 2ft by 3ft electric LED RGB panel frame and a 16ft tall frame.
- Last two pictures depict the PCB board I designed, place, routed, and programmed. Using Altium Designer and an ARM Cortex-M microcontroller.

Michael Greer

Main: 608-444-3792
Email: Mgreer625@gmail.com

Technical Skills

Programming: Verilog, C, C++, Java, JavaScript, LUA

Web designing: HTML, PHP, Javascript

Frameworks & tools : Altera Quartus, Mentor Questa sim, ModelSim, Synopsys, Altium Designer, Eclipse IDE

Databases: SQL, MySQL

Education

University of Wisconsin– Madison GPA:3.064

September 2016 – December 2018

B.S. Computer Engineering

Madison, WI

B.S. Computer Science

Honors:

- Dean's List - Honors | Fall 2016, Term GPA 3.583
- Dean's List - Honors | Fall 2017, Term GPA 3.500

Coursework:

- Data Structures - Used Java: Stacks, queues, linked lists, hash tables, binary trees, graphs
- Operating Systems - Used C: Processes, scheduling, paging, concurrent threads, locks, files.
- Algorithms - Time complexities, sorting, searching, dynamic programming, hashing, graphing
- Database Management Systems - Used SQL: Relational queries, data storage and indexing.
- Computer Networks - Used Java: Switching, routing, framing, LAN, IP, TCP, UDP, congestion.

Academic Design Projects:

- Achieved 4th fastest program (written in C) in a classroom of approximately 200 students during concurrent programming unit of the operating systems course. Measured and shared by professor.

Madison Area Technical College GPA: 3.756

September 2013 – May 2016

Pre-Major

Madison, WI

Honors:

- Dean's List - High Honors | Fall 2013, Term GPA: 3.818
- Dean's List - Perfect Honors | Spring 2014, Term GPA: 4.000
- Dean's List - Perfect Honors | Fall 2014, Term GPA: 4.000
- Dean's List - High Honors | Spring 2015, Term GPA: 3.813
- Dean's List - Honors | Fall 2015, Term GPA: 3.559

Experience

Project Manager

July 2014 - July 2016

Electric Forest Music Festival - Contract

Rothbury, MI

- Defined customer specifications, created proposals, created bills of materials, designed, manufactured, tested, and delivered products at deadline.
- Designed, manufactured, and delivered a mobile, battery operated, 3ft by 2ft picture frame with 16,000 individually addressable RGB LEDs along the perimeter that animated text, images, and video. Used to frame individuals for photography.
- Led a group of ten people to deliver products on site at Electric Forest Music Festival.
- Manufactured and delivered a 16 foot tall picture frame used to frame groups of people for photography.

Game Creator/Modder and Web Developer

April 2008 - January 2010

Paradox Servers - Personal Project

Madison, WI

- Hosted a game server in Half Life 2's mod, Garrysmod.
- Developed and programmed game modes to be played on game server using LUA coding language.
- Hosted a website with forums using HTML and PHP.
- Developed and created automated webform to gamemode game purchases using MySQL and PHP.
- Created databases linking website to game server using MySQL.

01/17/19

UW-MADISON STUDENT RECORD

Greer,Michael Ryan

MATRICULATION DATE 09/06/16

INSTITUTION(S) ATTENDED:

Madison Area Technical College, Madison, WI

Malcolm Shabazz High School, Madison, WI

West High School, Madison, WI

CURRENT MAJOR: Computer Sciences BMAJ

08/29/16

TRANSFER COURSE CREDITS

ANTHRO	104	Cult Anthro&Human Diversity	3.000
PHILOS	211	Elementary Logic	4.000
PHILOS	101	Introduction to Philosophy	3.000
PHYSICS	202	General Physics	5.000
PHYSICS	201	General Physics	5.000
CHEM	104	General Chemistry II	5.000
CHEM	103	General Chemistry I	5.000
MATH	240	Intro to Discrete Mathematics	3.000
MATH	234	Calc--Functns of Variables	3.000
MATH	X15	Electives	2.000
MATH	222	Calculus&Analytic Geometry 2	5.000
MATH	221	Calculus&Analytic Geometry 1	5.000
MATH	113	Trigonometry	3.000
MATH	112	Algebra	3.000
COMP SCI	302	Introduction to Programming	4.000
MATH	101	Intermediate Algebra	4.000
SPANISH	102	Second Semester Spanish	4.000
SPANISH	101	First Semester Spanish	4.000
ENGLISH	X04	Electives	3.000
INTEREGR	160	Intro to Engineering Design	3.000
E C E	X10	Electives	3.000
E C E	252	Intro to Computer Engineering	3.000
TOTAL CREDITS			72.000

CRS GR PTS

Fall 2016-2017 CMPE 3 CMPE Undergrad

SESSION A1: SEP 06 - DEC 15

COMP SCI	367	Intro to Data Structures	3.000	AB	10.500
E C E	219	Analytical Methods for EM Engr	1.000	A	4.000
E C E	230	Circuit Analysis	4.000	AB	14.000
E C E	270	Circuits Laboratory I	1.000	A	4.000
E C E	352	Digital System Fundamentals	3.000	AB	10.500
SUM: EARNED CR 12 GPA CR 12 GPA 3.583			12.000		43.000

12/24/16 Dean's Honor List

CRS GR PTS

Spring 2016-2017 CMPE 3 CMPE Undergrad

SESSION A1: JAN 17 - MAY 04

E C E	203	Signals, Information & Comp	3.000	D	3.000
E C E	220	Electrodynamics I	3.000	B	9.000
E C E	340	Electronic Circuits I	3.000	BC	7.500
STAT	311	Intro Math Stat (Theo, Meth) I	3.000	B	9.000
SUM: EARNED CR 12 GPA CR 12 GPA 2.375			12.000		28.500

CRS GR PTS

Fall 2017-2018 CMPE 4 CMPE Undergrad

SESSION A1: SEP 06 - DEC 13

E C E	353	Intro to Microprocessor Sys	3.000	B	9.000
E C E	354	Machine Organizatn&Progrmnng	3.000	AB	10.500
E C E	551	Digital Sys Design & Synthesis	3.000	AB	10.500
E C E	555	Digital Circuits&Components	3.000	A	12.000
SUM: EARNED CR 12 GPA CR 12 GPA 3.500			12.000		42.000

12/24/17 Dean's Honor List

CRS GR PTS

Spring 2017-2018 CMPE 4 CMPE Undergrad

SESSION A1: JAN 23 - MAY 04

COMP SCI	537	Intro to Operating Systems	4.000	B	12.000
COMP SCI	552	Intro-Computer Architecture	3.000	AB	10.500
COMP SCI	577	Introduction to Algorithms	4.000	B	12.000
E C E	315	Intro Microprocessor Lab	1.000	AB	3.500
E P D	397	Technical Communication	3.000	DR	

COURSE DROPPED 02/20/18

SUM: EARNED CR 12 GPA CR 12 GPA 3.167 12.000 38.000

CRS GR PTS

Summer 2018 CMPE 4 CMPE Undergrad

SESSION ZDD: MAY 21 - JUN 17

E P D	397	Technical Communication	3.000	B	9.000
SUM:	EARNED CR	3	GPA CR	3	GPA 3.000
			3.000		9.000

			CRS	GR	PTS
Fall 2018-2019	CMPE	4	CMPE	Undergrad	
	SESSION A1: SEP 05 - DEC 12				
COMP SCI	534	Computational Photography	3.000	BC	7.500
COMP SCI	564	Database Mgt Systems	4.000	BC	10.000
COMP SCI	640	Intro to Computer Networks	3.000	B	9.000
E C E	453	Embedded Microproc System Dsgn	4.000	B	12.000
SUM:	EARNED CR	14	GPA CR	14	GPA 2.750
			14.000		38.500

ADV STG CREDITS	72
UGRAD CUM CREDITS	137
UNDERGRAD CUM GPA CREDITS	65
UGRAD CUM GRADE POINTS	199.0
UNDERGRADUATE GPA	3.062

Bachelor of Science-Computer Engineering
Degree Conferred December 23, 2018
MAJOR: Computer Engineering

UNDERGRADUATE DEGREE GPA 3.062

MEMORANDA

06/16/16 --Total degree credits granted do not equal total
course credits since a maximum of 72 degree credits
at a two-year institution may be applied to the
degree. (ADM)
END OF RECORD