

Circuit Hacking Projects

Artisans Asylum, Circuit Hacking Night, Wednesdays, 6-8pm

Allston, MA

Date	What	Who
03/08/23	Circuit board fix for HVAC (solder joint on heat pump at SMT station)	
	Sound board -synth project	
	Bass guitar project	
	Electrified neuron frame display	
	RF amplifier for satellite reception	
	Tesla coil build	
03/15/23	Dell monitor – attempted fix; need capacitor	
	Bass guitar project	
	DRO backlight for machine shot fixed	
	LED strip work	
	Take apart old clock, find 1.5V light bulb	
	Scope tutorial	
03/22/23	Digital clock	
	Fixed multimeters	
	Bass guitar project	Lauryn
	Curtain light LEDs	
	More HVAC board fixing	
	Analog joysticks soldered up	
03/23/29	Quad air bike discussion	
	Charlieplexed LED	
	Orthodontic welder rebuild	
	E-Ink project	
	Bass guitar project – success	Lauryn
	GPS with Raspberry Pi	
	1 MHz oscilloscope power fix	
04/05/23	Electric scooter fender repair	
	Festival of open source electronics and software defined radios	
	Huzzah screen	
	AED button	
	Big digital clock	
	Fan experiments	
04/12/23	Universal remote	
	Plant sculpture art piece	
	Antenna fabrication	
	soldering LED lights for growing plants	
	Clock	
	New old-school oscilloscope	
	Robot jumping idea	
04/19/23	Bass guitar pre-amp troubleshooting	
	Jumping solenoid for robot jumping idea test	
	Vacuum florescent clock	
	Arduino special effect neopixels and display	
	Multimeter fuse fix	
04/26/23	Bass guitar fixing	

	Raspberry Pi matrix display	
	I2C display	Kevin
	Alarm clock with Arduino (gave away Arduino micro)	
	Camera build	
	Had radio transmitter WSPR	
	Wire crimp for picture wire for marble run	
04/29/23	Makers Market – gas organ power supply (12V)	
	Makers Market – barette fix with heat shrink	
05/03/23	LED SMT resistor to make multicolor and software project work	
	Slot car control and monitor	Kevin
	Lamp fix	
	Stretch sensor ESP32 biofeedback	
	ESP23 running circuit python, NOW library for peer-to-peer 2-4GHz LORA	
	Computer hard drive setup	
	Somerville Open Studios – software for art project	
	Robot build – need M3 and M4 hardware bolts	
	Guitar/solenoid/synth	
	Node sculpture	
	bass guitar shorting again – fixing (drat!)	
	LED star project	
	broken LED flashlight	
05/10/23	Question on bike computer	
	2D sand board with magnet	
	LED grid	
	lasers, reading books	
	Robot build	
	Piezo switch	
	RGB matrix display	
05/17/23	tiny LED watch idea	
	board reflows	
	ham radio SDR with slow Morse	
	FPGA board with 7 segment display	
	Servo with Adafruit Feather (motorized potentiometer)	
	Slot car control system	Kevin
	Smoothie – Arduino Mega adapter board (Altium)	
05/24/23	Sony Discman repair	
	RC switch (remote control for car)	
	Overloading for ham radio test	
	4 HP motor driver – PWM control for lapidiary use	
	Scope learning	
	Open bionics – Brunel hand 2	
	Small guitar bass/amp	
05/31/23	Oscillator; cascaded NAND gate oscillator with photocell inputs	
	Kevin's slot car system	Kevin
	XY marble test rig with servomotor	
	Vest of LED lights	
	Automotive vent fan (120 VAC vs 12 VDC notes)	
	Arthur Ganson – walking piece upgrade – with Arthur Ganson!	
06/07/23	Drop in solder, lamp with battery segments	
06/14/23	12 VDC blinker for LED light (need 3 pin)	
	Futurepod gardening system discussion	

06/21/23	Slot car control and monitor	Kevin
	Star Trek LED panel	
	Optical light dependent theremin	
	Populating Brunel 2 robotic hand	
	Cable sort	
	Variable capacitor box fix	
06/28/23	Ultrasonic echolocator for the blind	
	Slot car control – auxiliary resistor ladder	Kevin
	VGA to USB C device loan	
	flat flex cable adapter	Steve
	custom guitar circuit	
	12 V car fan	
	Canbus LED lighting for camper	
	ESP32-S2 Kaluga 1 kit	
	LCD driver problem with laser light (through beam)	
07/05/23	Zine book with Electronics	Leslie
	Studfinder fix	Alex
	Soldering test	Sarah
	2D gantry box	Karmen
	PCB for Brunel hand	Randell
07/12/23	AC unit doesn't turn on; debug; odd relay	
	bass guitar fixing	
	welding power supply fix	
	fish monitoring with Raspberry Pi and camera	
	New class for spectrum analyzer and VNA	
07/19/23	Transistor project with hall effect and Lego	Sam
	Testing VNA with cavity filters	
	Soldering demo/test	
	bass guitar fixing	
	found fuse for project (20A)	Bill Z.
07/26/23	Raspberry Pi Yodek (free signage)	Kevin
	Learning to solder	Steve and Autumn
	Guitar pedal power supply	
	Samsung TV dual Bluetooth pairing – found instructions!	
	EEG sensor search for prosthetic	
	biosensor/biotech – Arduino/pyfirmata	Nick W.
08/02/23	Guitar rebuild	
	Keyboard repair	Vanessa
	Stripchart recorder	Alan
	Finding ideas	Zachary
	Various class discussions	Bleu
	Robot arm demonstration	Randell
	Short circuited NES	Joe
08/09/23	Bass guitar – continued fix	
	19V power supply find	
	LiPo battery giveaway	
	Slot car system	Kevin
	Repair stepper motor driver	
	Soldering iron testing	
08/16/23	Arduino	

	Three screens from small PC / Raspberry Pi for art project	
	Lilon batteries and JST connector hunt	
	ESP32 S2 and art	
	Questions on sorting SMT reels, etc.	
08/23/23	DJI drone repair	John
	Sort tons of parts from donations	
	Stereo fix	PQ
08/30/23	Solar garden path lights – fix 3 of 4!	Sandy
	laptop repair	
	Bass guitar – continued fix	
	salvage of components	
09/06/23	Camera film/digital giveaway; old film projector	
	IMU giveaway for someone's project	
	Battery project	Art
	Bass guitar – continued fix	
	Earbud remote controller	Polly
	USB micro cord giveaway	
	Bioreactor pump project	
09/13/23	Bass guitar #2, replacing connectors with ribbon cable	
	Switch for vacuum repair	
	Sort of ribbon cable and other parts	
09/20/23	Raspberry Pico communication	
	Solar panel charger	
	MP3 player fixer	
	Vacuum florescent clock	
	Raspberry Pi programming	
	Theremin circuit upgrade	
	Slot car system	Kevin
	Actuator for chair	
09/27/23	Lamp fix – switch replacement	
	Solar power light fix	
	Raspberry Pi project	
	ATTiny using Uno as programmer	
	Battery for MP3 player	
	Keyfob fix for car	
	Playing with theremin	
	Working out automated fish pulley system	
10/04/23	Sewing machine motor fix	
	Near IR spectroscopy for cranial bloodflow – ExpressPCB	
	Programming ATTiny for manage addressable LEDs	
	Lamp fix; new plug; tested grounding!	
	Getting sonar to test	
	Power distribution board for robot	
	Putting USB C connector on board	
10/11/23	Bass guitar – continued fix	
	TI development kit	Gauri
	Questions on RTOS, classes	Alex
	Chaz's mom has questions	Eileen
	Illuminated whiskey glasses project	
	New member visit	Doug
	Bike light fix – USB	Jecha

	MP3 player fix again	Ben
	Pi Finder – star finder for telescope	Zachary
	Tic-Tac-Toe Arduino ATTiny	Francesco
10/18/23	Bose stereo resurrection! AWRCC1	
	Old desktop restart	
	Arduino stepper motor test	
	Possible ROV project	Karmen
	Servo tuner	Randell
	Battery pack for Tic-Tac-Toe	
10/25/23	Zigbee for metal shop	
	RC stuff	Randell
	Wire for project (plasma cutter)	Seth
11/01/23	Roll-your-own keyboard project	Matt
	Hygrometer for HRV	Randell
11/08/23	Foucault pendulum explanation	Stuart and Tracie
	LED cube	Tyler
	Raspberry Pi soldering	Zachary
	LED mat	Saul
	Ham radio stuff	
	Building up of kit	Baruch
11/15/23	Crawling microbot kit	
	New folks!	
	How to solder	
	Neopixel	
	Voltage demo	
	Gas ignitor for fireplace question	
	Oscilloscope fix (BNC fix)	Alan
11/22/23	Turtle night light fix (spring replacement)	Jen
	LED indicator lights	
	Fixed multimeter with new fuse	
	Fixed radar dish – needed new servo	
	Fireplace gas ignitor (week 2)	
11/29/23	Replace capacitor on Bluetooth remote for earbuds	Polly
	Medical light ideas	Stephanie and Dane
	Scooter battery test fix	
	Telescope guidance chip desolder	
	LCD on Bose-like clock radio	
12/06/23	Fix conference badge battery holder	
	Nanit discussion	Vlad
	Check on radio legal stuff	
	Tea kettle fix	
	Blinking lights for cargo tricycle	
	Outboard engine repair	
	Robots for BARF (capture the cube)	
12/13/23	Pill project dispenser	Cindy
	Fixed for servo plotter (XY)	
	Isolated USB for Qbit	Francesco
	Wifi card on laptop fix	
12/20/23	Guitar fix	

	Raspberry Pi questions with Python and QT	Kevin
	Timer with noise after a few hours	Aditya
	3D camera working, Realsense	Randell
	Fixing TV e480i-B2	Ellen
12/27/23	Robot car	JJ and dad
	Radio	Melissa
	Raspberry Pi and Arduino	Kevin
01/03/24	InGaS detector (power and test)	Richard
	Network on Onion Omega	Rick
	Amplifier – possibly blown power supply	Melissa
	Raspberry Pi/Arduino	Kevin
	DC-DC solar panel issue; 12V to 48V	
01/10/24	Split keyboard	Alexander and Ross
	Cooling system for GPU	Baruch
	Touch Me Capacitive Sensor	Humbi
	Amplifier fix – continued	Melissa
01/17/24	Split keyboard	Alex
	First visit	Sarah
	Meet folks / nuclear thermal project	Laura
	Electronics – soccer ball visible at night	Nia
01/24/24	Casio keyboard circuit bending PT-12	Chris
	Neopixels	
	Vacuum cleaner cord	
	Fan system	Art
02/07/24	Home work; Rube Goldberg soccer	Mia
	Light painting	Damini
	BMW i8 (small electric) fix – switch issue	Jean
	Hacking stylaphone	Kendra
	CWQ	Chris
	Fox attenuator	Lily
	SPI comm	Cody
	High voltage supply	Carl
	Scraps – interviewing of Mike, interviewing of Andrew	Scraps
02/14/24	Learning to solder – heart kit	Damini
	Fixing oscilloscope	Mike B.
	Solder practice kit	Marley
	Fox transmitter	Chris
	Learning about the mill; Xiao Seeed?	Elaine
	Amplifier	Kendra
02/21/24	Solder blinky – first soldering	Hana
	One minute timer	Bob
	Fox hunting attenuator	Lily
	Fox hunting project	
	MBTA T project; API; Raspberry Pi	Elliott
	Solder blinky	Kate and Mark
	Electronic piano kit	Marley
	555 timer LED blinker	Daniel
02/28/24	New to space	Chris, Ming
	Harry Potter – like wand – 6 DOF IMU	Daniel
	Self watering plant project	Nia, Thai, Omar

	Cell phone lens fix!	Danielle
	24V 6A supply fix	Chris
	Finishing split keyboard project!	Alex
	QX5252 solar night light	Asheem and Jim
03/06/24	Fixing cat toys	Sandra
	Oscilloscope tests	Kevin
	Soldering kit	Danielle, Nathan
	Fox and fishfinder	Kendra
	Arduino	Daniel and Chris
	Glowing LED jellyfish project	
	Speaker mounts reattached	Melissa
	Ham radio discussion	Brendan